

FEDERAL BUREAU OF INVESTIGATION  
FOI/PA  
DELETED PAGE INFORMATION SHEET  
FOI/PA# 1389423-0

Total Deleted Page(s) = 2  
Page 11 ~ b6; b7C;  
Page 12 ~ b6; b7C;

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X Deleted Page(s) X  
X No Duplication Fee X  
X For this Page X  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Field File No. 206A-58-1A 19

Serial # of Originating Document \_\_\_\_\_

OO and File No. \_\_\_\_\_

Date Received \_\_\_\_\_

From IB (3)  
(Name of Contributor)

\_\_\_\_\_  
(Address of Contributor)

By \_\_\_\_\_   b6  
b7C

To Be Returned ☐ Yes ☐ No      Receipt Given ☐ Yes ☐ No

Grand Jury Material - Disseminate Only Pursuant to Rule 6(e), Federal Rules of Criminal Procedure ☐ Yes ☐ No

Title:

Reference: \_\_\_\_\_  
(Communication Enclosing Material)

Description: ☐ Original notes re interview of

① FD-192 Evidence pkg copy  
& contents of IB (3)  
② Transmitted envelope & original  
with forwarding IB (3) to 19  
  b6  
b7C



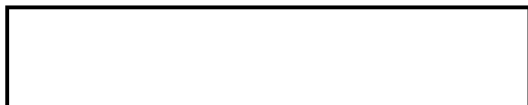
U.S. Department of Justice

Federal Bureau of Investigation

In Reply, Please Refer to  
File No.

880 Front Street  
Suite 6-S-31  
San Diego, California 92188

January 29, 1987



Re: Bay City Marine

b6  
b7C

Dear :

Being returned to you herewith is your notebook containing documents pertaining to Bay City Marine which you furnished to the Federal Bureau of Investigation on August 11, 1982.

These documents are no longer needed by this office.

Thank you for your cooperation.

Very truly yours,

THOMAS A. HUGHES  
Special Agent in Charge

By:



b6  
b7C

Enclosure



Bulky Exhibit - Inventory of Property Acquired as Evidence  
FD-192 (Rev. 5-23-80)

Date

8/12/82

Title and Character of Case

IRVIN ISADORE REFKIN;  
GENERAL MANAGER,  
BAY CITY MARINE  
FAG - DOD (U. S. NAVY)  
00:SD

Date Property Acquired

8/11/82

Source From Which Property Acquired

b6

b7C

Location of Property or Bulky Exhibit

D-3-4

Reason for Retention of Property and Efforts Made to Dispose of Same

REFERENCE

To Be Returned

See Serial

Agent Submitting Property or Exhibit

Agent Assigned Case

☒ Yes ☐ No

SA

SA

☐ Yes ☒ No Grand Jury Material - Disseminate Only Pursuant to Rule 6(e), Federal Rules of Criminal Procedure.

Description of Property or Exhibit

ONE (1) BLACK NOTEBOOK CONTAINING VARIOUS DOCUMENTS PERTAINING  
TO CONTRACTS WITH BAY CITY MARINE.

DATE:

2/9/87

REG#:

R 381740774

FILE:

206A-58-1B(3)

TO:

b6

b7C

NIGHT CLERK: PLEASE RETURN THIS PAPER TO  
DOTTIE, E.C.C.

SEMIANNUAL INVENTORY CERTIFICATION TO JUSTIFY RETENTION OF PROPERTY (Initial and Date)

206A-58-1B(3)

Field File #

206A-58

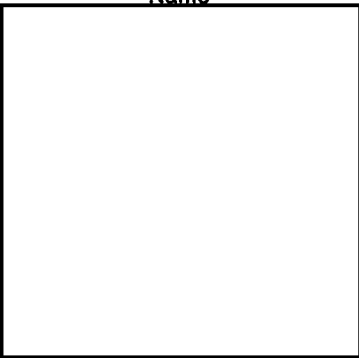
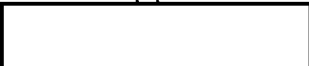

OO:

SD

SEARCHED	INDEXED
SERIALIZED	FILED
AUG 12 1982	
FBI - SAN DIEGO	



# CHAIN OF POSSESSION

Item No.	Name	Name	Time	Date
all	From: Bulky/SE		Time: 3:00pm	Date: 3/23/83
all	From: 		Time: 4:30P	Date: 3/23/83
all	From: Bulky/Kni		Time: 4:25p	Date: 1/25/85
	From: 		Time: 11:40A	Date: 2-4-85
all	From: Bulky/d		Time: 1:50p	Date: 1/29/87
	From:	To:	Time:	Date:
	From:	To:	Time:	Date:
	From:	To:	Time:	Date:
	From:	To:	Time:	Date:
	From:	To:	Time:	Date:

b6  
b7C

Item No.

Remarks

Disposition. dr

all funds to, contribution 2/9/87 per SD letter dated 1/29/87. Reg # R381740774 dr

UNITED STATES POSTAL SERVICE  
OFFICIAL BUSINESS

**SENDER INSTRUCTIONS**

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.



PENALTY FOR PRIVATE  
USE, \$300

RETURN  
TO



Print Sender's name, address, and ZIP Code in the space below.

**SPECIAL AGENT IN CHARGE**  
**FEDERAL BUREAU OF INVESTIGATION**  
**880 FRONT STREET, SUITE 6-S-31**  
**SAN DIEGO, CALIFORNIA 92188**

*ATTN ECC 206A-58-IB (3)*

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address.      2. ☐ Restricted Delivery.

<div data-bbox="208 301 1052 643"></div>	4. Article Number <b>K 381 740 774</b>
	Type of Service: <input checked="" type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail
	Always obtain signature of addressee or agent and <b><u>DATE DELIVERED.</u></b>
5. Signature — Addressee <b>X</b>	8. Addressee's Address ( <i>ONLY if requested and fee paid</i> )
6. Signature — Agent <b>X</b>	
7. Date of Delivery	

**U.S. Department of Justice**  
**Federal Bureau of Investigation**  
880 Front Street, Suite 6-S-31  
San Diego, California 92188

Official Business  
Penalty for Private Use \$300

TO  
SENDER

REASON CHECKED  
Unclaimed ☒ Refused  
Addressee unknown  
Insufficient address  
No such street  
No such office in state  
Do not return in this envelope



Postage and  
Fees Paid  
Federal Bureau  
of Investigation  
JUS-432

Rec'd  
3/12/87  
JK

b6  
b7C

**REGISTERED MAIL**

R 381 740 774

Claim Check

No.

982457

☐ Hold

Date

2/6/85

1ST Notice

3-5

2ND Notice

3-10

Return

Detached from  
PS Form 3849-A,  
Oct. 1985



NEW UP-DATE SHEET

18 JUNE 1981

BAY CITY MARINE QUALIFIED WELDERS & BRAZERS

b6  
b7C

NAME	BADGE	MMA	TIG	MIG	S-B	PLATE	PIPE
	(1)	Carbon				X	
	(2)		Alum.			X	
	(3)		Stainless				X
	(4)				CNA		X
	(5)	Carbon					X
	(6)		Alum.			X	
	(7)		Stainless				X
	(8)				CNA		X
	(9)	Carbon				X	
	(10)				CNA		X
	(11)				CNA		X
	(12)	Carbon				X	
	(13)						
	(14)						
	(15)				CNA		X
	(16)				CNA		X
	(17)				CNA		X
	(18)						
	(19)	Carbon				X	
	(20)	Carbon				X	
	(21)	Stainless					X
	(22)	Stainless				X	
	(23)						
	(24)						
	(25)						
	(26)				CNA		X
	(27)	Carbon				X	
	(28)	Carbon				X	
	(29)						
	(30)						
	(31)						
	(32)						
	(33)						
	(34)						

CONTRACT 72-81 MODS

7-7-1

MOD-1	200749 & 200929	TIME	<u>1 HR</u>	MATERIAL	<u>          </u>	10070
MOD-2	200929	TIME	<u>1 HR</u>	MATERIAL	<u>          </u>	8070
MOD-3	200929	TIME	<u>16 HRS</u>	MATERIAL	<u>          </u>	8070
MOD 4	200749 & 200929	TIME	<u>9 HRS</u>	MATERIAL	<u>          </u>	6070
MOD 5	200749 & 200929	TIME	<u>12 HRS</u>	MATERIAL	<u>NONE</u>	10070
MOD 6	200749 & 200929	TIME	<u>8 HRS</u>	MATERIAL	<u>NONE</u>	10070
MOD 7	200929	TIME	<u>2 HRS</u>	MATERIAL	<u>          </u>	5070
MOD 8	200749 & 200929	TIME	<u>24 HRS</u>	MATERIAL	<u>          </u>	5070
MOD 9	200749 & 200929	TIME	<u>4 HRS</u>	MATERIAL	<u>5.00</u>	5076
MOD 10	200749	TIME	<u>3 1/2 HRS</u>	MATERIAL	<u>1.30</u>	10070
MOD 11	749 & 200929	TIME	<u>0</u>	MATERIAL	<u>          </u>	10070
MOD 12	749 & 200929	TIME	<u>24 HRS</u>	MATERIAL	<u>          </u>	8070
MOD 13	749 & 200929	TIME	<u>24 HRS</u>	MATERIAL	<u>          </u>	8076
MOD 14	200749	TIME	<u>1 HR</u>	MATERIAL	<u>          </u>	10070
MOD 15	200929	TIME	<u>16 HRS</u>	MATERIAL	<u>          </u>	9070
MOD 16	749 & 200929	TIME	<u>24 HRS</u>	MATERIAL	<u>          </u>	10070

**QUALITY DEFICIENCY REPORT - HARDWARE**  
(\*Optional Items)

NAVSHIPS 4355/14 (9-72) (FRONT)

1. FROM: Supship San Diego	*2. 19 October 1981	*3. 1509-1D #60
TO: Bay City Marine 1411 Harding Ave. National City, Ca. 92050	*4.	*5.
	*6.	*7.
*8. [Redacted]		b6 b7C

9. REFERENCE:

SPECIFICATION Clause 10 MSR	PAGE 7	LINE	PARAGRAPH A & B
DRAWING NO.	REV.		
PROCEDURE NO.	PARAGRAPH	PAGE	
OTHER (Specify)			

10. THE FOLLOWING DEFICIENCY(IES) REQUIRE CORRECTIVE ACTION AS TO:

☒ CORRECTION OF DEFECT      ☒ CORRECTION AS TO CAUSE

DESCRIPTION OF DEFICIENCY(IES):

1. Clause 10 of MSR States: Reasonable care to prevent damage to property shall be exercised by contractor.
2. Port aft window pane on pilot house was damaged due to abrasive blasting.
3. Contractors records do not address this area.
4. This item was discussed with [Redacted] on 16 October 1981 by [Redacted]

b6  
b7C

(Continue on Back if More Space Required)

11. AUTHORIZED GOVT. REP. (Signature) [Redacted]	CODE 1509-1D	*12. 19 October 1981
*13. It is requested that a reply indicating the corrective action taken or to be taken be provided to Supship Code 1509-1D by 26 October 1981.		
14. CONTRACTOR'S REPLY (Authorized Representative)		

b6  
b7C

(Signature)

(Date)

15. VERIFICATION & EVALUATION STATEMENT OF CONTRACTOR'S ACTION (To Be Completed By Govt. Rep.)

SIGNATURE:

DATE:





PLEASE GIVE ME A  
ANSWER ON THIS IN  
WRITING.

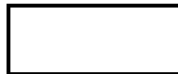
NEED:

(a) CORRECTION TO DEFECT

(b) CORRECTION TO CAUSE

MUST BE RETURNED TO SUPSHIP  
BY 10/26/81

b6  
b7C



# QUALITY DEFICIENCY RECORD - HARDWARE

HAVSHIPS 4355/14 (9-72) (FRONT)

(\*Optional Items)

1. FROM: Supship San Diego	*2. 19 October 1981	*3. 1509-1D #60
T0: Bay City Marine 1411 Harding Ave. National City, Ca. 92050	*4.	*5.
	*6.	*7.

8. b6  
b7C

9. REFERENCE:

SPECIFICATION Clause 10 MSR	PAGE 7	LINE	PARAGRAPH A & B
DRAWING NO.	REV.		
PROCEDURE NO.	PARAGRAPH	PAGE	
OTHER (Specify)			

10. THE FOLLOWING DEFICIENCY(IES) REQUIRE CORRECTIVE ACTION AS TO:

☒ CORRECTION OF DEFECT ☒ CORRECTION AS TO CAUSE

DESCRIPTION OF DEFICIENCY(IES):

1. Clause 10 of MSR States: Reasonable care to prevent damage to property shall be exercised by contractor.

2. Port aft window pane on pilot house was damaged due to abrasive blasting.

3. Contractors records do not address this area.

4. This item was discussed with   on 16 October 1981 by   b6  
b7C

(Continue on Back if More Space Required)

<span style="border: 1px solid black; padding: 0 40px;"> </span>	CODE 1509-1D	*12. 19 October 1981	b6 b7C
--	-----------------	-------------------------	-----------

13. It is requested that a reply indicating the corrective action taken or to be taken be provided to Supship Code 1509-1D by 26 October 1981.

14. CONTRACTOR'S REPLY (Authorized Representative)

(Signature)

(Date)

15. VERIFICATION & EVALUATION STATEMENT OF CONTRACTOR'S ACTION (To Be Completed By Govt. Rep.)

SIGNATURE:

DATE:

S/N 0105-LF-604-2390

Page of

D-10064

6-12 6-13

749 - PAINT VOIDS #5-#6

929

TUES

WSP 6-12-1 5:00 PM

6-15	6-16	6-17	6-18	6-19	6-22	6-23	6-24	6-25
RAMP	VOID 7	VOIDS 1-7,		RAMPS	LAZZ			
1/2 DAY	1 1/2 DAYS	1 1/2 DAYS		1/2 DAY	2 DAYS	= 13 DAYS		JULY-3RD

6-26

6-29

6-30

7-1

7-2

7-3

1 WEEK

#6 word  $\rightarrow$

# 5. 26 WE HAVE A PAINTER

~~For the purpose of this report~~

749 - Left A  $\Rightarrow$  Ramp  $\frac{1}{2}$   $\left( \frac{1}{2} \right)$  VOIDS  $\left[ \text{needs } 1 \frac{1}{2} \text{ DAY per void} \right]$   
 929  $\rightarrow$  ALL  $\left( \frac{1}{2} \right)$  VOIDS  $\left[ \text{ALL } \left( \frac{1}{2} \right) \text{ VOIDS} \right]$  RAMP  $\frac{1}{2}$  VOIDS  $\left[ \text{LAZZERETTI} \right]$   
 $\left[ - 10 \frac{1}{2} \text{ DAYS} - \right]$  8070 2 DAYS

—Herman—

-- Peto

— Raffo

PAINTER 3

6-15	6-16	6-17	6-18	6-19	6-22	6-23	6-24	6-25	6-26
RAMD #7 VOID			RAMOS. LAZZ-						

6-29	6-30	7-1	7-2	7-3	7-6	7-7
VOIDS		1-7	#929			
		929				

Void 7 Painted.

5. BY NINE 100%

RAMP - 80%  $\frac{1}{2}$  DAY

# 2 VOID  $\rightarrow$  10%

$\frac{1}{2}$  (6)  $\frac{1}{2} = 3$

#6-1-2-3-4 VOID

LAZ

BOW RAMD

~~RATES~~

DK EDGE COAMINE +

FORWARD of FRAME 3

WINCH ROOM



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8387

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-51  
DATE SUBMITTED 11/16/81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR   
INSPECTION DATE

b6  
b7C

CW 00995-11,12,13

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-8 765 & 783  
REF.

SPEC. PKG. NO. SD 688-81 ART. NO. 583-41-003 MOD.  
PT VIII

## CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

1. Item 583-41-004 PT VIII, para 3.22 directs contractor to remove the propellers, but does not indicate re-installation.
2. Upon completion of para 3.19, it became evident that the thrust support bracket is not in line with the rudder bearing and tube.
3. Para 3.20.1 directs contractor to make adjustments to the rudders. Inspection reveals that the steering arms are badly bent in the adjustment areas, and contractor feels that they will break if straightening is attempted.

CONTRACTS  
NOV 16 2 17 PM '81

## CONTRACTOR'S RECOMMENDED ACTION

1. Request SUPSHIP direction.
2. Issue contractor a change order to relocate support bracket for true alignment, total of four (4) brackets.
3. Issue contractor a change order to replace the threaded areas.

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: URGENT!!!!  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

b6  
b7C

*MOD #17 & 18 APPLIES*

*11-19-81*

DATE

EP.

JULY 7,1981

TO: IRV

FROM:

b6  
b7c

SUBJ: EXPENSES FOR CONTRACT 72-81 SANDBLASTING

1. THE FOLLOWING IS A PARTIAL LIST OF EXPENSES OCCURED ON SANDBLASTING.

b4

*POI FULL AMOUNT*

\* NEED TOTAL COST FOR REPLACEMENT OF FUEL OIL HOSES  
DUE TO PAINTING.

\* NEED ALL INVOICES IN

# WEEKLY TIME SHEET

Week Ending 11-27 19 7

BAY CITY MARINE, INC.

Sheet No. \_\_\_\_\_

LINE NUMBER	NAME OF EMPLOYEE	MONDAY			TUESDAY			WEDNESDAY			THURSDAY			FRIDAY			SATURDAY			SUNDAY			TOTAL HOURS FOR WEEK	LINE NUMBER
				TOTAL HOURS			TOTAL HOURS			TOTAL HOURS			TOTAL HOURS			TOTAL HOURS			TOTAL HOURS			TOTAL HOURS		
		IN	OUT		IN	OUT		IN	OUT		IN	OUT		IN	OUT		IN	OUT		IN	OUT			
1	b6 b7C	A 730	400	8	730	400	8	7	410	8			H	0	0									1
2		A 730	400	8	730	400	8	730	400	8	O F F	H	O F F	0										2
3		A 730	400	8	730	400	8	730	400	8			H		0									3
4		A 730	400	8	730	400	8	730	400	8			H		0									4
5		A 730	400	8	730	400	8	730	400	8			H		0									5
6		A 730	400	8	730	400	8	730	400	8			H		0									6
7		A 730	400	8	730	400	8	730	400	8			H		0									7
8		A 730	400	8	730	400	8	730	400	8			H		0									8
9		A 700	400	8 1/2	700	400	8 1/2	700	400	8 1/2			H		0									9
10		A 730	400	8	730	400	8	730	400	8	O F F	H		0										10
11		A 730	400	8	730	400	8	730	400	8	O T P	H		0										11
12		A 700	1100	8 1/2	700	400	8 1/2						H		0									12
13		A 700	400	8	600	400	8 1/2	600	400	8 1/2	O F F	H	O F F	0	730	1130	4	730	930	2				13
14		A 730	400	8	730	400	8	730	400	8			H		0									14
15																								15
16																								16
17																								17
TOTALS →																								



# WEEKLY TIME SHEET

Week Ending 4-13 19 1

BAY CITY MARINE, INC.

Sheet No. \_\_\_\_\_

LINE NUMBER	NAME OF EMPLOYEE	MONDAY			TUESDAY			WEDNESDAY			THURSDAY			FRIDAY			SATURDAY			SUNDAY			TOTAL HOURS FOR WEEK	LINE NUMBER
		IN	OUT	TOTAL HOURS	IN	OUT	TOTAL HOURS	IN	OUT	TOTAL HOURS	IN	OUT	TOTAL HOURS	IN	OUT	TOTAL HOURS	IN	OUT	TOTAL HOURS					
1		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8							1	
2		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8							2	
3		7:30	4:00	8	OFF	OFF	0	OFF	OFF	0	OFF	OFF	0	7:30	4:00	8							3	
4		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	12:00	4							4	
5		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8							5	
6		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8							6	
7		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8							7	
8		7:30	4:00	8	8:05	4:15	7 1/2	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8							8	
9		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8							9	
10		8:05	4:00	7 1/2	OFF	OFF	0	OFF	OFF	0	7:30	4:00	8	7:30	4:00	8							10	
11		7:30	4:00	8	7:30	4:00	8	7:30	12:00	4	7:30	4:00	8	7:30	12:00	4							11	
12		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	OFF	OFF	0	7:30	4:00	8							12	
13		7:30	4:00	8	7:30	4:00	8	OFF	OFF	0	7:30	4:00	8	7:30	4:00	8							13	
14		7:30	4:00	8 1/2	7:30	4:00	8 1/2	7:30	4:00	8 1/2	7:30	4:00	8 1/2	7:30	4:00	8 1/2							14	
15		7:30	4:00	8 1/2	7:30	4:00	8 1/2	7:30	4:00	8 1/2	7:30	4:00	8 1/2	7:30	4:00	8 1/2							15	
16		7:30	4:00	8 1/2	7:30	4:00	8 1/2	7:30	4:00	8 1/2	7:30	4:00	8 1/2	7:30	4:00	8 1/2							16	
17																							17	
TOTALS →																								

# WEEKLY TIME SHEET

Week Ending 12-4-1 19\_\_

BAY CITY MARINE, INC.

Sheet No. 1

LINE NUMBER	NAME OF EMPLOYEE	MONDAY			TOTAL HOURS	TUESDAY			TOTAL HOURS	WEDNESDAY			TOTAL HOURS	THURSDAY			TOTAL HOURS	FRIDAY			TOTAL HOURS	SATURDAY			TOTAL HOURS	SUNDAY			TOTAL HOURS	TOTAL HOURS FOR WEEK	LINE NUMBER
		IN	OUT	IN		OUT	IN	OUT		IN	OUT	IN		OUT	IN	OUT		IN	OUT	IN		OUT									
1		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8														1	
2		7:00	4:00	8	7:00	4:00	8	7:00	4:30	9	7:00	4:00	8	7:00	4:00	8														2	
3		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8														3	
4		7:30	4:00	8	OFF	0	OFF	0	OFF	0	7:30	4:00	8	7:30	4:00	8														4	
5		7:30	2:00	6	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8														5	
6		7:30	4:00	8	OFF	0	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8															6	
7		7:30	12:00	4	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8														7	
8		7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8														8	
9		7:30	4:00	8	7:30	4:00	8	OFF	0	7:30	4:00	8	7:30	4:00	8															9	
10		7:30	4:00	8	7:30	4:00	8	7:30	4:30	8	7:30	4:00	8	7:30	4:00	8														10	
11		7:30	4:00	8	7:30	1:30	5	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8														11	
12		7:30	4:00	8	7:30	11:00	8	7:30	4:00	8	7:30	4:00	8	7:30	4:00	8														12	
13		7:00	4:00	8	7:00	4:00	8	7:00	4:00	8	7:00	4:00	8	7:30	4:00	8														13	
14		7:00	4:00	8	7:30	4:00	8	7:00	4:30	9	7:00	4:00	8	1:00	10:00	2														14	
15					7:30	4:00	8	7:30	4:30	8	7:30	4:00	8	7:30	4:00	8														15	
16		OFF																												16	
17																														17	
TOTALS →																															



47-81      lcm-8      27 JUL 81  
694 & 930      25 Sept 81  
SPEC ARG NO      ~~8-3-81~~ 10-2-1      SD - 552.81      b6  
b7C

72-81      749-929      5-26-17.31-1  
SPEC ARG NO      SD 431-81

DURHAM →

**NATIONAL PUMP & INJECTOR SALES & SERVICE, INC.**

2307 East Belt Street

San Diego, California 92113

Phone: Area Code 714, 232-0831

October 14, 1981

Bay City Marine  
1411 Harding Avenue  
National City, Calif 92050

Subject: U.S.S. Durham LKA-114  
BCM 116-81, Spec #688-81  
Item #583-41-004, LCM'8  
2 each 12V71 G.M. Diesel  
Engines, S/N 12VA53220  
S/N 12VA53217

Gentlemen:

The following conditions were noted and recorded during the dis-assembly, cleaning and inspecting of subject engines.

Engine S/N 12VA53220

Crankshaft cracked (See NDT Report). Crankshaft scored. Right exhaust manifold broken. Right bank thermostat housing broken. <sup>EAR</sup>NO Water temp and fuel oil pressure sending units broken. Engine lube oil contaminated with fuel oil. Fuel oil jumper lines damaged. Both valve covers damaged. Blower coupling damaged. Blower drive gears rusty and pitted, Blower coupling cover damaged.

Trasmission & P.T.O.

Bearings worn and scored. Forward clutch plates worn and warped. Forward clutch springs broken.

Missing Parts Report

Generator, RPA Hydraulic pumps.

Engine S/N 12VA53217

Crankshaft worn beyond manufacture wear limits. Cam rollers worn and scored. Vibration dampner damaged.

Continue

Transmission & P.T.O.

Forward clutch springs broken. Reverse springs broken.  
worn and scored. Forward and reverse clutch plates worn and warped.

Missing Parts Report

Generator, RPA Hydraulic Pumps.

Recommend the following list of material be repaired and or replaced

1	5146734	CRANKSHAFT
1	5162715	RIGHT BANK EXHAUST MANIFOLD
1	5172628	RT BANK THERMOSTAT HOUSING
12	5111527	FUEL OIL JUMPER LINES (L)
1	5103744	VALVE COVERS
2	5149512	VALVE COVER INST KITS
1	5103377	BLOWER COUPLING
1	5196763	BLOWER COUPLING COVER
12	5111526	FUEL OIL JUMPER LINES (S)

MISSING  
BROKE

Transmission

1	MA648	BALL BEARING
1	MA647	ROLLER BEARING
2	M2175B	BALL BEARING
2	M2104	BALL BEARING
2	MA649	BALL BEARING
1	M2475A	BALL BEARING
2	MA293	BALL BEARING
1	M2167	BALL BEARING

Engine S/N 12VA53217

( NONE )

Bay City Marine

Page #3

Continue

Transmission

b4

1	MA648	BALL BEARING
1	MA647	BEARING, ROLLER
2	M2175B	BALL BEARING
2	M2104	BALL BEARING
2	MA649	BALL BEARING
1	M2475A	BALL BEARING
2	MA293	BALL BEARING
1	M2167	BALL BEARING



Very truly yours,



b6  
b7C

**NATIONAL PUMP & INJECTOR SALES & SERVICE, INC.**

2307 East Belt Street

San Diego, California 92113

Phone: Area Code 714, 232-0831

October 14, 1981

Bay City Marine  
1411 Harding Avenue  
National City, Calif 92050

Subject : U.S.S. Durham LKA-114  
BCM 116-81. Spec #SD688-81  
Item #583-41-003, LCM 8  
2 each 12V71 G.M. Diesel  
Engines S/N 12VA5212795  
S/N 12VA52793

Gentlemen:

The following conditions were noted and recorded during the dis-assembly, cleaning and inspecting of subject engine.

Engine S/N 12VA5212795

Cylinder block is cracked (See NDT Report). (1) each connecting rod bent. End plate on expansion tank eroded. Fuel lines damaged. Blower coupling assembly damaged. Crankshaft is worn beyond manufacture wear limits. Cam rollers worn and scored.

Transmission & P.T.O.

Forward clutch plates worn and scored. Bearings show heat discoloration. Forward clutch springs broken.

Missing Parts Report

Generator, hydraulic pump (RPA).

Engine S/N 12VA52793

Cylinder block cracked (See NDT Report). Cam rollers worn and scored. Rocker arm shafts worn and scored. Rocker arms worn through hardened surface. Both valve covers damaged.

Bay City Marine

Page #2

Continue

Transmission & P.T.O.

Forward reverse clutch plates worn and scored. Bearings worn and scored. Forward clutch springs broken.

Missing Parts Reports

Generator, hydraulic pump (RPA).

Recommend the following list of material be repaired and or replaced

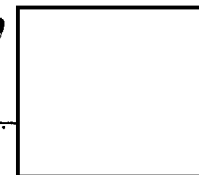
Engine S/N 12VA5212795

1 5135756  
1 5123741  
1 5150344

CONNECTING ROD  
END PLATE EXPANSION TANK  
BLOWER COUPLING

BENT

ERODED

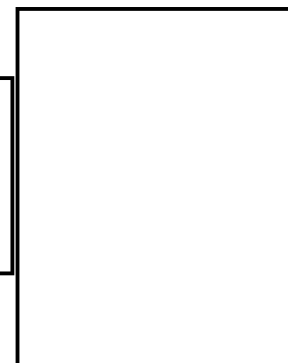
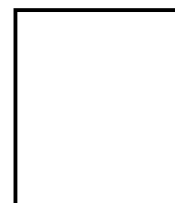


b4

Transmission

1 MA648  
1 MA647  
2 M2175B  
2 M2104  
2 MA649  
1 M2475A  
2 MA293  
1 M2167

BALL BEARING  
ROLLER BEARING  
BALL BEARING  
BALL BEARING  
BALL BEARING  
ROLLER BEARING  
ROLLER BEARING  
BALL BEARING



Engine S/N 12VA52793

1 VALVE COVER  
2 VALVE COVER INST KIT



TWIN DISC  
NS14



Bay City Marine

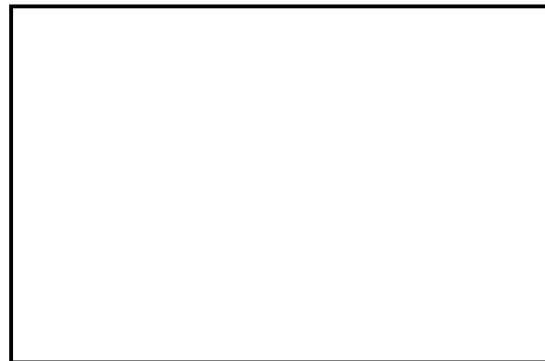
Page #3

Continue

b4

Transmission

1	MA648	BALL BEARING
1	MA647	BALL, ROLLER
2	M2175B	BALL BEARING
2	M2104	BALL BEARING
2	MA649	BALL BEARING
1	M2475A	BALL BEARING
2	MA293	BALL BEARING
1	M2167	BALL BEARING



Very truly yours,



b6  
b7C

RJC/ec

b6  
b7C

AWARDED CG. IS TO BCM

CONTRACT NO.	VESSEL	BID/3-B	BCM INSPECTOR	SUPSHIPS SURVEYOR	SUBCONTRACTOR	PROGRESS REPORT	COMPLETION REPORT	GFM REPORT	REMARKS
1-81		3-B			PRECISION	100 %	100 %	100 %	
2-81		3-B			NATIONAL PUMP	100 %	100 %	100 %	2
3-81		BID			CLEANING DYN.	100 %	100 %	100 %	
4-81		3-B			PC & E	100 %	100 %	100 %	
5-81		BID			PRECISION	100 %	100 %	100 %	
6-81		3-B			FRASER	100 %	100 %	100 %	2
7-81		BID			PRECISION	100 %	100 %	100 %	
8-81		3-B			PRECISION/CEM	100 %	100 %	100 %	
9-81		BID			A&E MACHINE	100 %	100 %	100 %	
10-81		BID			BCM	100 %	100 %	100 %	
11-81		3-B			FRASER	100 %	100 %	100 %	2
12-81		3-B			FRASER	100 %	100 %	100 %	
13-81		3-B			FRASER	100 %	100 %	100	7000 REMAIN
14-81		BID			CODE WELDING	85 %	85 %		PENDING GENERATOR TEST
15-81 ✓		BID			BCM	90 %	90 %		
16-81		BID			BCM	100 %	100 %	100	
17-81		3-B			PRECISION	100 %	100 %	100	
18-81		BID			BCM	100 %	100 %	100	
19-81		3-B			FRASER - CODE A & E	90 %	90 %		PENDING 3 STRIPPING PUMPS
20-81		3-B			FRASER	100 %	100 %	100	

b6  
b7C

AWARDED C IS TO BCM

CONTRACT NO.	VESSEL	BID/3-B	BCM INSPECTOR	SUPSHIPS SURVEYOR	SUBCONTRACTOR	PROGRESS REPORT	COMPLETION REPORT	GFM REPORT	REMARKS
21-81		BID			BCM	100 %.	100 %.	100	Submitted 3/24/81
22-81		3-B			PRECISION	100 %.	100 %.	100	
23-81		3-B			PRECISION	100 %.	100 %.	100	
24-81		BID			BCM	100 %.	100 %.	100	
25-81		BID			PRECISION/CEM	100 %.	100 %.	100	
26-81		BID			BCM	100 %.	100 %.	100	
27-81		3-B			SPERRY GYRO	100 %.	100 %.	100	
28-81		3-B			CODE WELDING	100 %.	100 %.	100	
29-81		BID			BCM	—	HOLD —	—	HOLD START IN SEPT.
30-81		3-B			ACRO ELEC./ NATIONAL PUMP	100 %.	100 %.	—	new work anticipated 2-17-81
31-81		BID			BCM/A&E/FRYER NATIONAL PUMP	100 %.	100 %.	100	
32-81		3-B			FRASER	100 %.	100 %.	100	
33-81		3-B				100 %.	100 %.	100	
34-81		BID			BCM	100 %.	100 %.	100	Submitted 2-23-81
35-81		BID			A & E MACHINE	100	100	100	Frank has Completion Report Submitted 95% 4/10/81
36-81		3-B			& E/ PRECISION RPM	100 %.	100 %.		
37-81		BID			PRECISION/CEM	100 %.	100 %.	100	
38-81		3-B			DEAN	100 %.	100 %.	100	
39-81		3-B			A & E MACH.	100 %.	100 %.	100	
40-81		3-B			FRASER (MIC-1) BOILER	100 %.	100 %.	100	

b6  
b7C

AWARDED

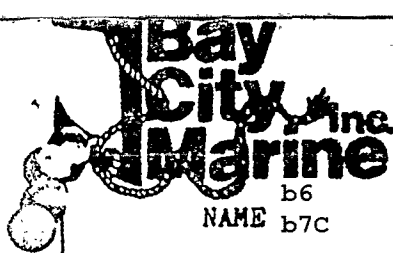
JTS TO BCM

CONTRACT NO.	VESSEL	BID/ 3-B	BCM INSPECTOR	SUPSHIPS SURVEYOR	SUBCONTRACTOR	PROGRESS REPORT	COMPLETION REPORT	GFM REPORT	REMARKS
41-81 ✓		BID			BCM - MSD	100 %.	100 %.	Open	
42-81		3-B			FRASER MIC-1 INS. SPEC.	100 %	100 %	100	
43-81		BID			A & E Machine	100%	100 %	100	
44-81		BID			PRECISION	100	100		LAST REPORT SUBMITTED 4/10/81
45-81 ✓		BID			B C M M S D	100%	100%	100	No PROGRESS REPORT RECEIVED 3/19/81
46-81		BID			BCM - MSD	84			5/20/81
47-81 ✓		BID			BCM	100	100	100	Submitted 100% 4/14
48-81		BID			A & E Mach.	100	100	100	Submitted 100% 4/13
49-81		BID			A & E Mach.	100 %.	100 %.	Open	
50-81		3-B			ACRO & A&E	100	100		Waiting for delivery of 3 bearings from A&E due in APRIL
51-81		3-B			PC & E	100 %.	100 %.	Open	
52-81		BID			A & E MACH.	91	90		5/11/81
53-81		Bid			MSD BCM	90%	90%		
54-81					BCM @ MSD	100 %.	100 %.	100	Submitted 100% 4/21/81
55-81		BID			A&E ACRO	38			5/20/81
56-81		BID			BCM	100 %.	100 %	Open	
57-81		BID			BCM	100 %.	100 %.	100	
58-81		BID			PRECISION	100	100		
59-81		BID			A&E MACHINE	100	100		
60-81		BID			BCM	37			5/20/81

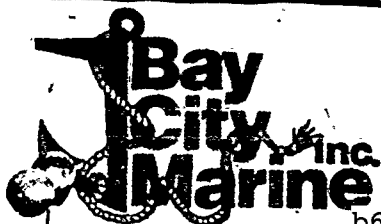
AWARDED CLOSING TO BCM

[illegible]

## BAY CITY MARINE QUALIFIED WELDERS &amp; BRAZERS



NAME	BADGE	MMA	TIG	MIG	S-B	PLATE	PIPE
		Carbon				X	
			Alum.			X	
			Stainless				X
					CNA		X
		Carbon					X
			Alum.			X	
			Stainless				X
					CNA		X
		Carbon				X	
					CNA		X
					CNA		X
		Carbon				X	
		Carbon				X	
					CNA		X
					CNA		X
					CNA		X
		Carbon				X	
		Carbon				X	
		Stainless					X
		Stainless				X	
		Carbon				X	
					CNA		X
		Carbon				X	
		Carbon				X	
(29)							
(30)							
(31)							
(32)							
(33)							
(34)							

BAY CITY MARINE QUALIFIED WELDERS & BRAZERS

NAME	BADGE	MMA	TIG	MIG	S-B	PLATE	PIPE
		Carbon				X	
			Alum.			X	
			Stainless				X
					CNA		X
		Carbon					X
			Alum.			X	
			Stainless				X
					CNA		X
		Carbon				X	
					CNA		X
					CNA		X
		Carbon				X	
					CNA		X
					CNA		X
					CNA		X
		Carbon				X	
		Carbon				X	
		Stainless					X
		Stainless				X	
					CNA		X
		Carbon				X	
		Carbon				X	
(29)							
(30)							
(31)							
(32)							
(33)							
(34)							



s / LOT's LOG REPORT

b6  
b7c

\* POOLE BOAT  
2 men 1 WEEK  
705,200  
3,200  
30,000

Fig. 5

Contract No. 116-81

IDR'S

Vessel: LCM- 765, 783

IDR NO.	DATE	SUB IDR	ITEM NO.	SUBJECT	MOD NO.	DATE	REMARKS
1	10-7	CODE	PT VIII OF IX	NDT	X		COU IN DATA 3.10 RT V
13	10-14	BCM	PT VII	REPLACE NIPPLE (87)	3	11-3	MOD - 3 APPLIES REPLACE NIPPLES
18	10-16	CODE		BOW RAMP WINCH NEED TECH MANUAL	X	10-21	NO COST TO GOV
17	10-15	CODE		MANUF BEARINGS & INSTL	X	10-21	NO COST TO GOV
* 16	10-15	BCM + Sub	PT -	REQUEST TO UT STRUTS & BOTTOM PLATE	3	11-3	MOD # 3 APPLIES UT
19	10-19	CODE		REPAIR RUDDER & PROP SHAFTING - THERMAL SDRAN	3	11-3	MOD # 3 APPLIES 2 REPAIR PRO SHAFTS
20	10-19	CODE		TARGET RUDDER & REMOVE FLYNGES	3	11-3 10-21	CONTRACTOR COU REPAIR Rudder Flanges & Post
32	10-19	BCM		BLAST FUEL TANKS	X	10-21	NO ADD'L WORK AUTHORIZED
31	10-19	BCM		BLAST 4 FUEL TANKS	X	10-21	NO ADD'L WORK AUTHORIZED
33	10-20	BCM		EXPEDITE IDRS	X	10-21	MOD NEGOTIATION
35	10-21	PDS		REPLACE AMP CARD & TEST	X	10-21	NEW WORK NOT AUTHORIZED
36	10-21	PDS		PROVIDE 1 NEW FAN ON ENCH BOAT	X	10-21	" " "
39	10-26	NPI		REPL 2 ACCUMULATOR			
47	11-3	PDS		Required Report			
48	11-3	PDS		Required Report			
49	11-3	NPI		Not Responsible for Bearings in Transmissions			
50	11-3	NPI		Not Responsible for crankshaft			
53	11-17	CODE		MANUE NEW Relanders & Test	9	11-24	MOD 9 APPLIES





1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-1  
DATE SUBMITTED 10-7-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR   
INSPECTION DATE 10-6-81  
RE: CW 0995-1

b6  
b7C

VIA: CODE # 1509-1D SPEC. PKG. NO. SD 688-81 ART. NO. 583-41-003 MOD.  
SUBJECT: USS DURHAM LKA-14 #6765 & 6783 583-41-004  
REF. CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS) PT VIII OF IX

Upon visual inspection, contractor noted that the lower support to skegs were cracked and has been temporarily repaired. Inspection also revealed cracks in strut supports.

### CONTRACTOR'S RECOMMENDED ACTION

Issue contractor change order to NDT upper and lower portion of struts. Eight areas each boat (total of sixteen (16) areas). "V" out cracks and re-weld. NDT finished welds.

CONTRACTS  
OCT 7 9 50 AM '81

URGENT

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

b6  
b7C

*Covered in para 3.10 of Basis PART IV*

DATE



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS DURHAM LKA-14 #6765 & 6783

REF.

SPEC. PKG. NO. SD - 688-81

ART. NO. 583-41-003 MOD.

583-41-004

PT VIII OF IX

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-1

DATE SUBMITTED 10-7-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-6-81

RE: CW 0995-1

b6

b7C

Upon visual inspection, contractor noted that the lower support to skegs were cracked and has been temporarily repaired. Inspection also revealed cracks in strut supports.

### CONTRACTOR'S RECOMMENDED ACTION

Issue contractor change order to NDT upper and lower portion of struts. Eight areas each boat (total of sixteen (16) areas). "V" out cracks and re-weld. NDT finished welds.

URGENT

SIGNATURE OF  
ORIGINATOR

[Redacted Signature Box]

b6

b7C

REPLY REQUESTED BY: \_\_\_\_\_

TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO.

MOD.

583-41-002

PT VIII OF IX

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

VISUAL INSPECTION REVEALS THE FOLLOWING:

- 1) PORT RUDDER POST BADLY BENT
- 2) PORT RUDDER BLADES BADLY DETERIORATED
- 3) STARBOARD RUDDER BADLY DETERIORATED

CONTRACTOR'S RECOMMENDED ACTION

ISSUE CONTRACTOR CHANGE ORDER TO RENEW PORT AND STARBOARD RUDDERS (BLADES AND STOCK).  
RUDDER STOCK TO BE STAINLESS STEEL.

SIGNATURE OF  
ORIGINATOR

[Redacted Signature Box]

b6  
b7C

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS LCM-8 #765 & 783

REF.

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-003

MOD.

583-41-004

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-13

DATE SUBMITTED 10-14-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-12-81

RE: BCM

b6

b7C

- 1) Para 3.4.3 of PT VII does not cover bilge manifold nipples. Upon removal of bilge drain valves it was noted that the nipples were corroded and should be replaced.

OCT 14 9 49 AM '81  
CONTRACTS

### CONTRACTOR'S RECOMMENDED ACTION

1. Issue contractor a change order to remove and replace each 2½" x 4" aluminum nipples.

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: URGENT

TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

MOD #3 APPLIES

b6

b7C

11-3-81

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509 1D

SUBJECT: USS LCM-8 HULL 765 & 783  
REF.

SPEC. PKG. NO. SD 688-81

ART. NO. 583-411003 MOD.

" 004

# INSPECTION / DEFICIENCY REPORT

REPORT NO. #13

DATE SUBMITTED 10-12-1

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-12-1

b6  
b7C

## CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

1. PARA 3.4.3 OF PT VII DOES NOT COVER BILGE MANIFOLD NIPPLES.  
UPON REMOVAL OF BILGE DRAIN VALVES IT WAS NOTED THAT  
THE NIPPLES WERE CORRODED AND SHOULD BE REPLACED.

## CONTRACTOR'S RECOMMENDED ACTION

1. ISSUE CONTRACTOR A CHANGE ORDER TO REMOVE & REPLACE  
EA 2 1/2" X 4" ALUMINUM NIPPLES

8(EA)

SIGNATURE OF  
ORIGINATOR



b6  
b7C

REPLY REQUESTED BY: URGENT

COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-8 #6765  
REF.

SPEC. PKG. NO. SD  
688-81

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-16  
DATE SUBMITTED 10-15-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR  
INSPECTION DATE

RE: BCM

b6  
b7C

ART. NO. MOD.  
583-41-003  
PT III para 3.15.1

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

1. During hull inspection design requested that contractor conduct UT on the port and stbd struts. And bottom plate from midship to frame #3 outboard strakes.

## CONTRACTOR'S RECOMMENDED ACTION

1. Issue contractor a change order to perform ultra-sonic test on port and stbd struts and bottom plate (midships to frame #3 outboard strakes.)

CONTRACT  
OCT 15 2 57

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

MOD #3 APPLIES

b6  
b7C

11-3-81  
DATE

SUPERVISOR OF SHIPBUILDING REP.



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-10  
SUBJECT: USS LCN-8 #6765  
REF.

SPEC. PKG. NO. SD  
628-81

ART. NO. MOD.  
593-41-003  
PT III para 3.15.1

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

1. During hull inspection design requested that contractor conduct UT on the port and stbd struts. And bottom plate from midship to frame #3 outboard strakes.

CONTRACTOR'S RECOMMENDED ACTION

1. Issue contractor a change order to perform ultra-sonic test on port and stbd struts and bottom plate (midships to frame #3 outboard strakes.)

**URGENT**

REPLY REQUESTED BY: \_\_\_\_\_  
COMPLETE ARTICLE WITHIN AVAILABILITY  
SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

SIGNATURE OF  
ORIGINATOR

\_\_\_\_\_

b6  
b7C

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS LCM-8 #6765 & 6783

REF.

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-003

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

Contractor has been unable to locate Ryertex bearings for rudders before end of contract. Sources contacted:

1. King Bearing
2. Bearing Specialities
3. Bearing Unlimited

Six to eight weeks from factory.

CONTRACTOR'S RECOMMENDED ACTION

Issue change order to manufacture (4) four Ryertex type bearings or procure and install (4) cutless (Rubber type) bearings.

Oct 15 2 56 PM  
CONTRACTS

SIGNATURE OF  
ORIGINATOR

[Redacted Signature Box]

REPLY REQUESTED BY: URGENT  
NO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

*SUITABLE SUBSTITUTE AUTHORIZED AT  
NO ADDITIONAL COST TO GOVERNMENT.*

b6  
b7C

*10-21-81*  
DATE

[Redacted Signature Box]

SUPERVISOR OF SHIPBUILDING REP.



To BE REVIEWED BY

**Code Welding & Fabrication Co., Inc.**

426 West 15th Street  
National City, California 92050

SERIAL NO. CW 0995-3  
DATE SUBMITTED October 14, 1981  
CONTRACT NO. BCM 116-81  
PLANNER

b6  
b7C

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA

VIA: SUPSHIP FIELD REPRESENTATIVE

IPN/PCN 20  
HULL 74 CM 6765  
74 CM 6783

SUBJ: USS Durham LKA-114 SPEC. NO. SD-688-81 ITEM NO. 583-14-3 MOD NO. \_\_\_\_\_

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

Contractor has been unable to locate Ryertex bearings for rudders before end of contract. Sources contacted:

1. King Bearing
2. Bearing Specialties
3. Bearing Unlimited

Six to eight weeks from factory.

CONTRACTOR'S RECOMMENDED ACTION:

Issue Change Order to manufacture (4) four Ryertex type bearings or procure and install (4) cutless (Rubber type) bearings.

REPLY REQUIRED BY 10/16/81  
TO COMPLETE ITEM WITHIN AVAILABILITY

SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS

b6  
b7C

SIGNATURE OF SUPSHIP REPRESENTATIVE

He



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-18  
DATE SUBMITTED 10-15-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR   
INSPECTION DATE  
RE: CW0995-2

b6  
b7C

VIA: CODE # 1509-1D

SPEC. PKG. NO. SD

ART. NO.

MOD.

SUBJECT: USS LCM-8 #6765 & 6783

688-81

583-41-003

REF. BOW RAMP WINCH

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

Para 3.22 of Art. 583-41-003 tells contractor to use 2-C for repair and list of parts for bow ramp winch. This is a tech manual for Gearmatic winch. Existing winches are MARCO 6240 Model #W-4055. Contractors bid was based on repair of Gearmatic winches.

## CONTRACTOR'S RECOMMENDED ACTION

Issue change order to direct contractor to use proper tech manual. Cover contractor for any additional cost for parts and labor.

OCT 15 2 56 PM  
CONTRACTS

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

REF. 2C TO BE NAVSEIPS 0920-046-8010  
AT NO ADDITIONAL COST TO GOVERNMENT

b6  
b7C

10-21-81

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.

BCM Rec'd 10/13/81 TO BE REVIEWED BY

Code Welding & Fabrication Co., Inc.

426 West 15th Street  
National City, California 92050

SERIAL NO. CW 0995-2  
DATE SUBMITTED October 13, 1981  
CONTRACT NO. BCM 116-81  
PLANNER

b6  
b7C

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA  
VIA: SUPSHIP FIELD REPRESENTATIVE

IPN/PCN 20  
HULL LCM-8-74 CM 6765  
LCM-8-74 CM 6783

SUBJ: USS Durham LKA-114 SPEC. NO. SD-688-81 ITEM NO. 583-14-3 MOD NO.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

Bow Ramp Winch

Paragraph 3.22 of Art. 583-14-3 tells contractor to use 2-C for repair and list of parts for bow ramp winch. This is a tech manual for Gearmatic winch. Existing winches are MARCO 6240 Model #W-4055. Contractor's bid was based on repair of Gearmatic winches.

CONTRACTOR'S RECOMMENDED ACTION:

Issue Change Order to direct contractor to use proper tech manual. Cover contractor for any additional cost for parts and labor.

REPLY REQUIRED BY 10/15/81  
TO COMPLETE ITEM WITHIN AVAILABILITY

SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS

b6  
b7C

SIGNATURE OF SUPSHIP REPRESENTATIVE



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS LCM-8 #765 & 783

REF.

SPEC. PKG. NO. SD

~~XXXXX~~ 688-81

ART. NO.

583-41-003

583-41-004

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-19

DATE SUBMITTED 10-19-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-15-81

RE: BCM

b6  
b7C

1. Contractor has accomplished para 3.23 of PT VIII the following discrepancies were XXX noted:

- Propulsion shafting is worn in way of backing gland and cutless bearing area.
- Rudder shafting is worn and shows pipe wrench and hammer marks in bearing area.

CONTRACTS

OCT 19 10 17 AM '81

## CONTRACTOR'S RECOMMENDED ACTION

- Issue a change order to repair rudder and propulsion shafting using thermal spray process on bearing and packing gland areas IAW MILSTD 1687 (SH) of 24 NOV 80 (para 6-6.2.1)

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

MOD #3 APPLIES

11-3-81

DATE

SUPERVISOR OF SHIPBUILDING REP.



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509.1D

SUBJECT: USS LCM-8- HULL 705-783  
REF.

SPEC. PKG. NO. SD ~~668-8~~ 688-8 ART. NO. 583.41-003 MOD. 004

# INSPECTION / DEFICIENCY REPORT

REPORT NO. #19  
DATE SUBMITTED 10-19-1  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR  
INSPECTION DATE 10-15-1

b6  
b7C

## CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

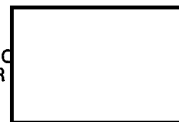
1. CONTRACTOR HAS ACCOMPLISHED PARA 3.23 OF PT VIII  
THE FOLLOWING DISCREPANCIES WERE NOTED

- A. PROPULSION SHAFTING IS WORN IN WAY OF PACKING  
GLAND AND CUTLESS BEARING AREA.
- B. RUDDER SHAFTING IS WORN AND SHOWS PIPE  
WRENCH AND HAMMER MARKS IN BEARING AREA

## CONTRACTOR'S RECOMMENDED ACTION

1. ISSUE A CHANGE ORDER TO REPAIR RUDDER AND  
PROPULSION SHAFTING USING THERMAL SPRAY  
PROCESS ON BEARING AND PACKING GLAND AREAS  
IN ACCORDANCE WITH MIL STD 1687 (SH) OF  
24 NOV 1980 (PARA 6-6.2.1)

SIGNATURE OF  
ORIGINATOR



b6  
b7C

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.

# Code Welding & Fabrication Co., Inc.

426 West 15th Street  
National City, California 92050

SERIAL NO. CW 0995-6  
DATE SUBMITTED October 14, 1981  
CONTRACT NO. BCM 116-81  
PLANNER

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA  
VIA: SUPSHIP FIELD REPRESENTATIVE

IPN/PCN 20  
HULL 74 CM 6765  
74 CM 6783

SUBJ: USS Durham LKA-114 SPEC. NO. SD-688-81 ITEM NO. 583-14-3 MOD NO. -

## CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

### PROPULSION SHAFTING - RUDDER SHAFTING

1. Propulsion shafting is worn in way of packing gland and cutless bearing area.
2. Rudder shafting is worn and shows pipe wrench and hammer marks in bearing area.

*Para 3.23  
V11*

## CONTRACTOR'S RECOMMENDED ACTION:

Issue Change Order to repair rudder and propulsion shafting using thermal spray process on bearing and packing gland areas.

Enclosure 1  
MIL-STD-1687 (SH)  
24 November 1980  
Paragraphs 6 through 6.2.1

b6  
b7C

REPLY REQUIRED BY October 17, 1981  
TO COMPLETE ITEM WITHIN AVAILABILITY

SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS

SIGNATURE OF SUPSHIP REPRESENTATIVE

MIL-STD-1687(SH)  
24 November 1980  
(See Section 7)

MILITARY STANDARD

THERMAL SPRAY PROCESSES FOR  
NAVAL SHIP MACHINERY AND  
ORDNANCE APPLICATIONS



FSC MFFP

MIL-STD-1687(SH)  
24 November 1980

5.3.8.1 Care should be taken in any machining or grinding operation in order to avoid damage to the coating. Improper techniques during the finishing operation could result in pull-out of particles, thus producing a severely pitted surface or in heat checking. It is essential that the sprayed particles be clearly sheared and not pulled from the surface as a result of the finishing operation.

5.3.8.2 All masking materials shall be removed prior to surface finishing. Finished dimensions shall be as required by the acquisition specification or drawing.

5.3.8.3 Generally, wet grinding is recommended over dry grinding, provided the proper wheel is used. Wheels with coarse grain and low bond strength shall be used to grind sprayed coatings to prevent loading the wheel. When a coolant is used, it shall contain a rust inhibitor and be kept clean and free of foreign matter. The grinding wheel shall not remain immersed in the coolant as it will become unbalanced due to the absorption of moisture.

5.3.9 Safety precautions. Safety practices contained in AWS C2.1 shall be followed.

## 6. THERMAL SPRAY APPLICATIONS

### 6.1 General.

6.1.1 Thermal spray coatings can be applied to build up worn or mis-machined parts and to improve abrasion resistance. They are not intended to fill gouges or similar localized damage without building up the entire area. Thermal spray deposits do not restore properties such as tensile strength or resistance to fatigue stresses.

6.1.2 Information contained in this section is presented for the purpose of assisting in the selection of a coating which would be appropriate for the intended application and also suitable to the capabilities of the performing facility. Selection shall be made from the presented listings in table I whenever possible; however, thermal spray applications and coatings are not limited to these listings.

6.1.3 Selection of one of the listed applications/coatings does not eliminate the need for the performance qualification tests required by this standard.

### 6.2 Approved applications.

6.2.1 Machinery. Thermal spray coatings have been approved by NAVSEA for several generic applications. Case by case approval is not needed for use of thermal spraying in the applications listed below. Process instructions (that is, spray process, spray equipment, spray



MIL-STD-1687(SH)

24 November 1980

parameters, coating materials, sealers, and finishing) used for these applications are limited to those which have been approved by NAVSEA for various components of machinery equipment, except propulsion shafts:

- (a) Repair of seal (packing) areas of shafts used in oil and fresh water systems to obtain original dimensions and finish.
- (b) Repair of bearing interference fit areas of shafts to restore original dimensions and finish (except for motors and generators where chromium plating is permissible).
- (c) Build up of pump shaft wear ring sleeves to original dimensions.
- (d) Repair of miscellaneous static fit areas to restore original dimensions, finish and alignment.

6.2.2 Ordinance. Ordinance equipment approval is limited to static applications for restoring desired dimensions or for shimming to maintain interchangeability of components, except for hydraulic or pneumatic applications, where a sealer is required.

6.3 Proposed applications. Applications that are not listed in 6.2.1 and 6.2.2 require specific NAVSEA approval. This approval will be based on the results of a laboratory or service test to determine the adequacy of the coating in the proposed application. The test plan shall include a process instruction to cover the preparation of the test samples or parts, and the method of conducting the test for coordination with the NAVSEA technical agent responsible for the equipment.

## 7. SUPERSESSION

7.1 This standard includes the requirements of NAVSHIPS 0919-000-6010, "Metallizing of Shafts and Similar Objects", 31 August 1966.

Preparing activity;  
Navy - SH  
(Project MFFP-N149)

**Code Welding & Fabrication Co., Inc.**

426 West 15th Street  
National City, California 92050

SERIAL NO. CW-0995-4  
DATE SUBMITTED October 14, 1981  
CONTRACT NO. BCM 116-81  
PLANNER

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA  
VIA: SUPSHIP FIELD REPRESENTATIVE

IPN/PCN 20  
HULL 74 CM 6765

SUBJ: USS Durham LKA-114 SPEC. NO. SD -688-81 ITEM NO. 583-14-3 MOD NO.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

Required "As found" reports

- A. Tail Shaft
- B. Rudder Shaft

CONTRACTOR'S RECOMMENDED ACTION:

Required "As found" report

3.23-1  
Part VIII

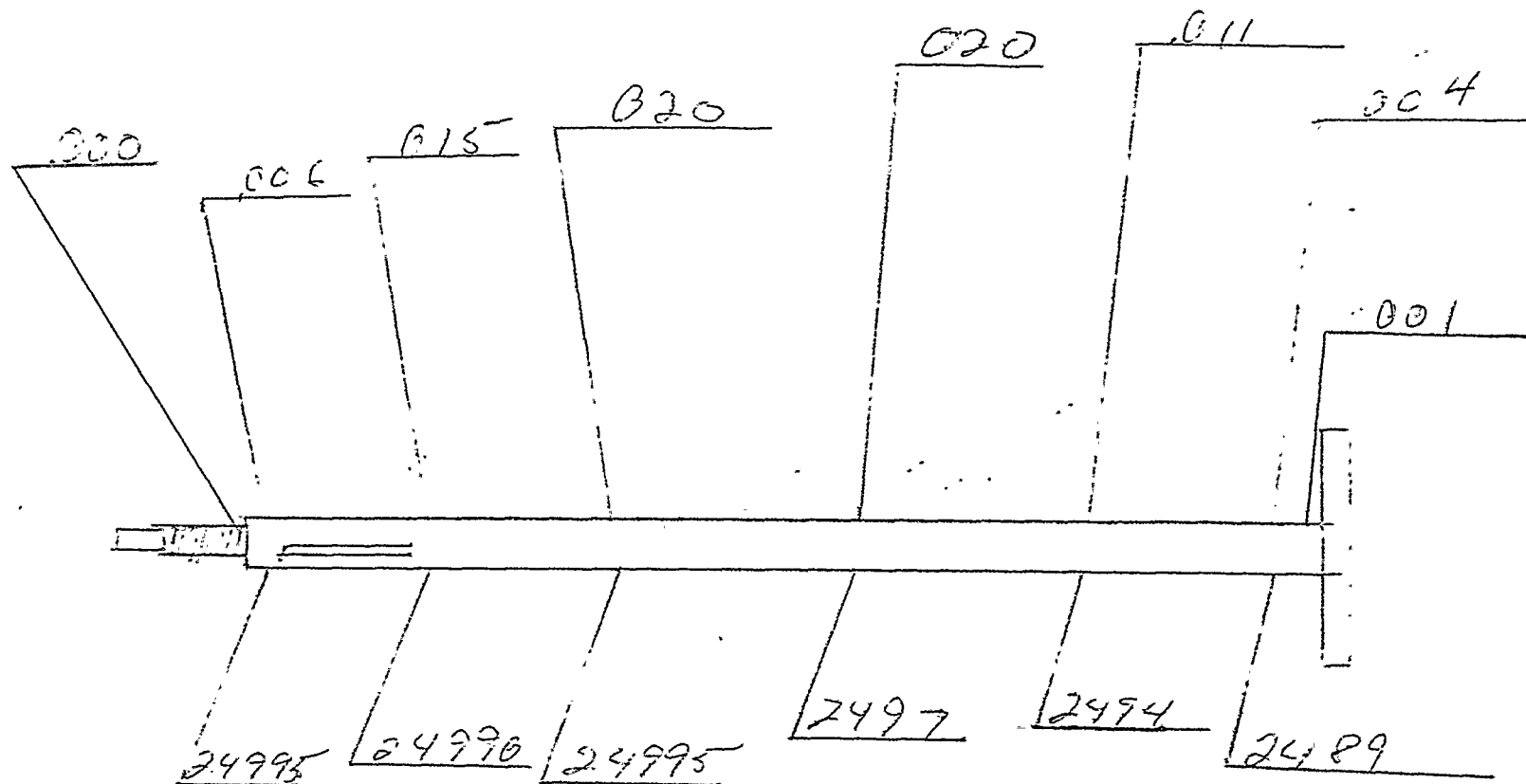
b6  
b7C

REPLY REQUIRED BY \_\_\_\_\_  
TO COMPLETE ITEM WITHIN AVAILABILITY

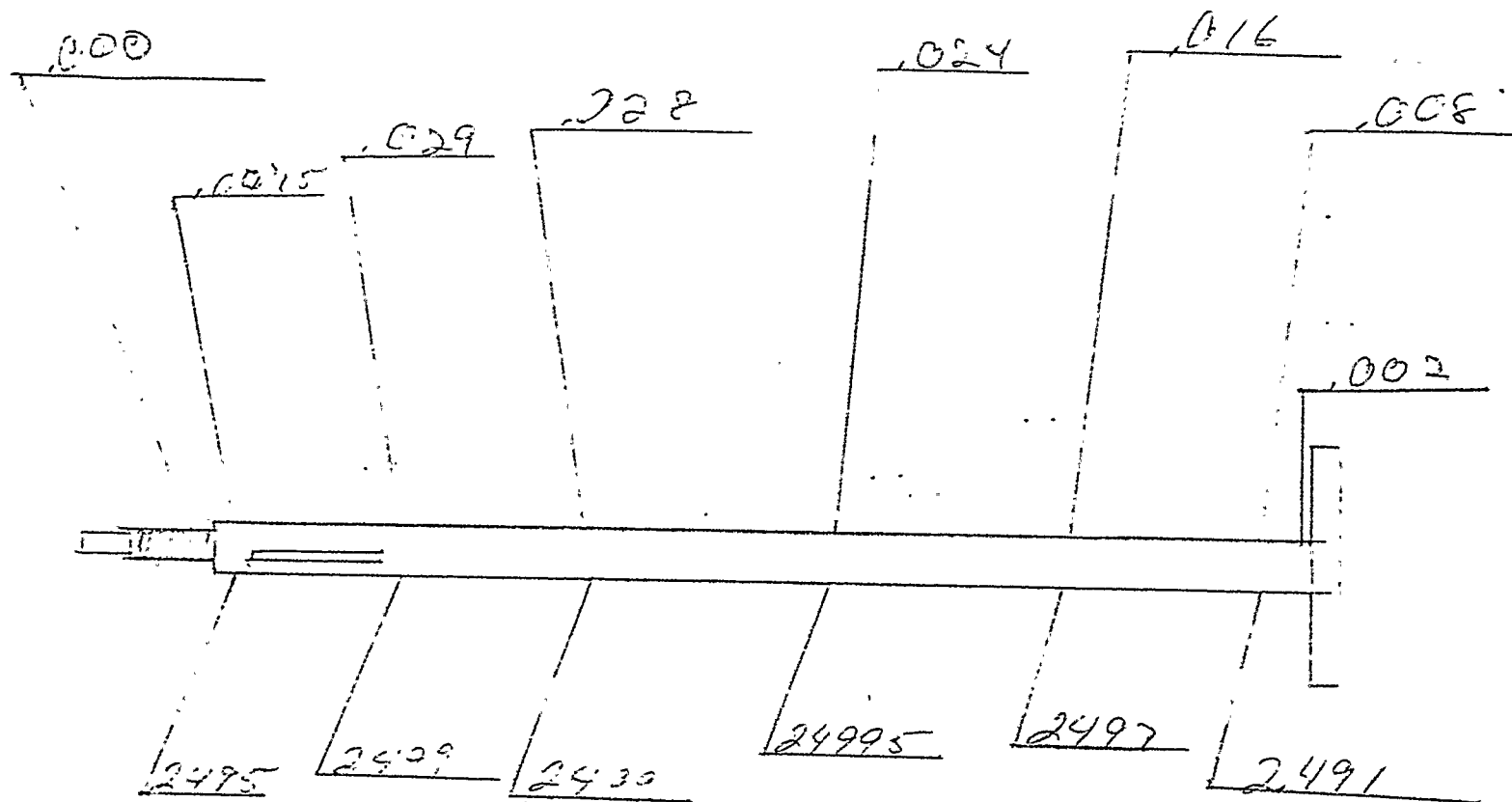
SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS

\_\_\_\_\_  
SIGNATURE OF SUPSHIP REPRESENTATIVE

KA 114-1-B

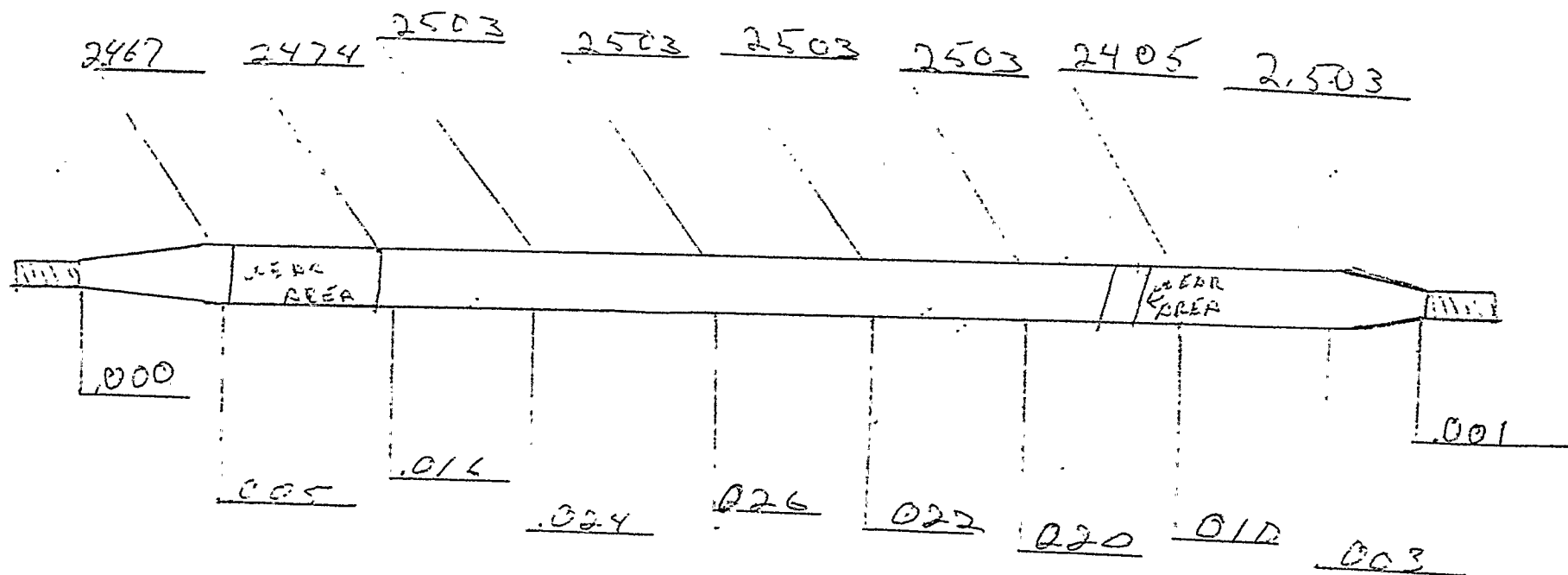


KA 114-2-S



114-2-S

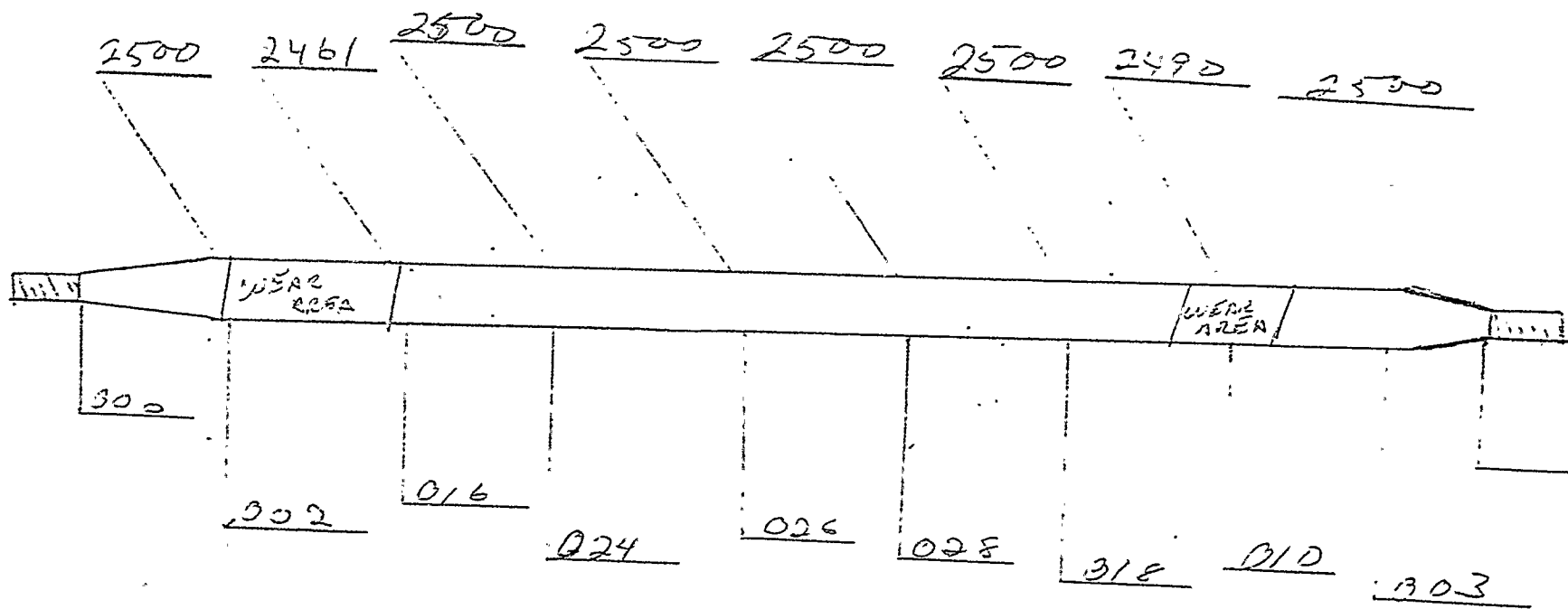
AS FOUND



114-1-5

R. Bond

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Code Welding & Fabrication Co., Inc.**

426 West 15th Street  
National City, California 92050

SERIAL NO. CW-0995-5  
DATE SUBMITTED October 14, 1981  
CONTRACT NO. BCM 116-81  
PLANNER

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA

IPN/PCN 20  
HULL 74 CM 6783

VIA: SUPSHIP FIELD REPRESENTATIVE

SUBJ: USS Durham LKA-114 SPEC. NO. SD-688-81 ITEM NO. 583-14-3 MOD NO. 41

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

Required "As found" reports

A. Tail Shaft

B. Rudder Shaft

VIII  
Para →  
3, 23

CONTRACTOR'S RECOMMENDED ACTION:

Required "As found" reports

b6  
b7C

REPLY REQUIRED BY \_\_\_\_\_  
TO COMPLETE ITEM WITHIN AVAILABILITY

SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS

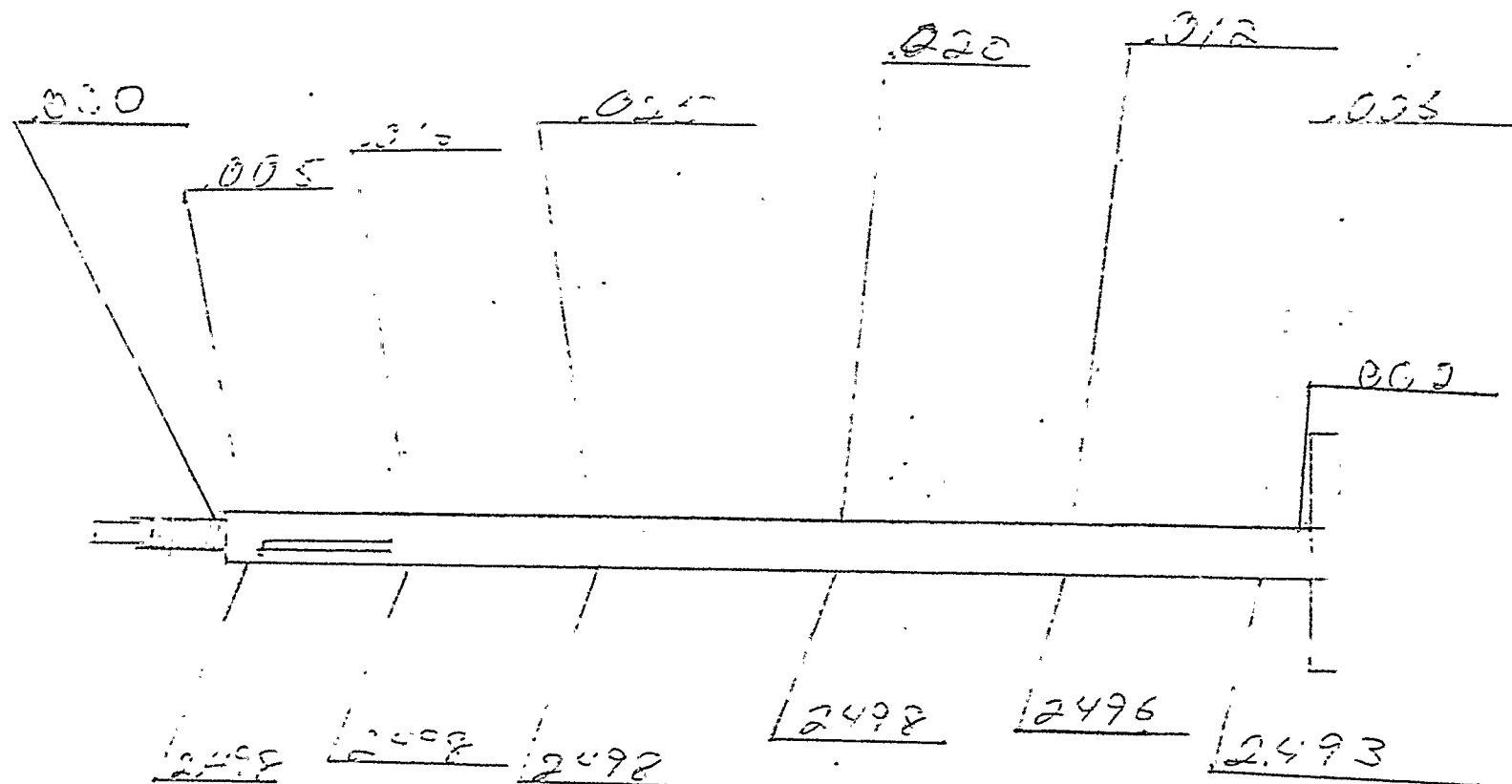
SIGNATURE OF SUPSHIP REPRESENTATIVE

KA 114-2-P

AS Found

TAKEN 13/

b6  
b7C





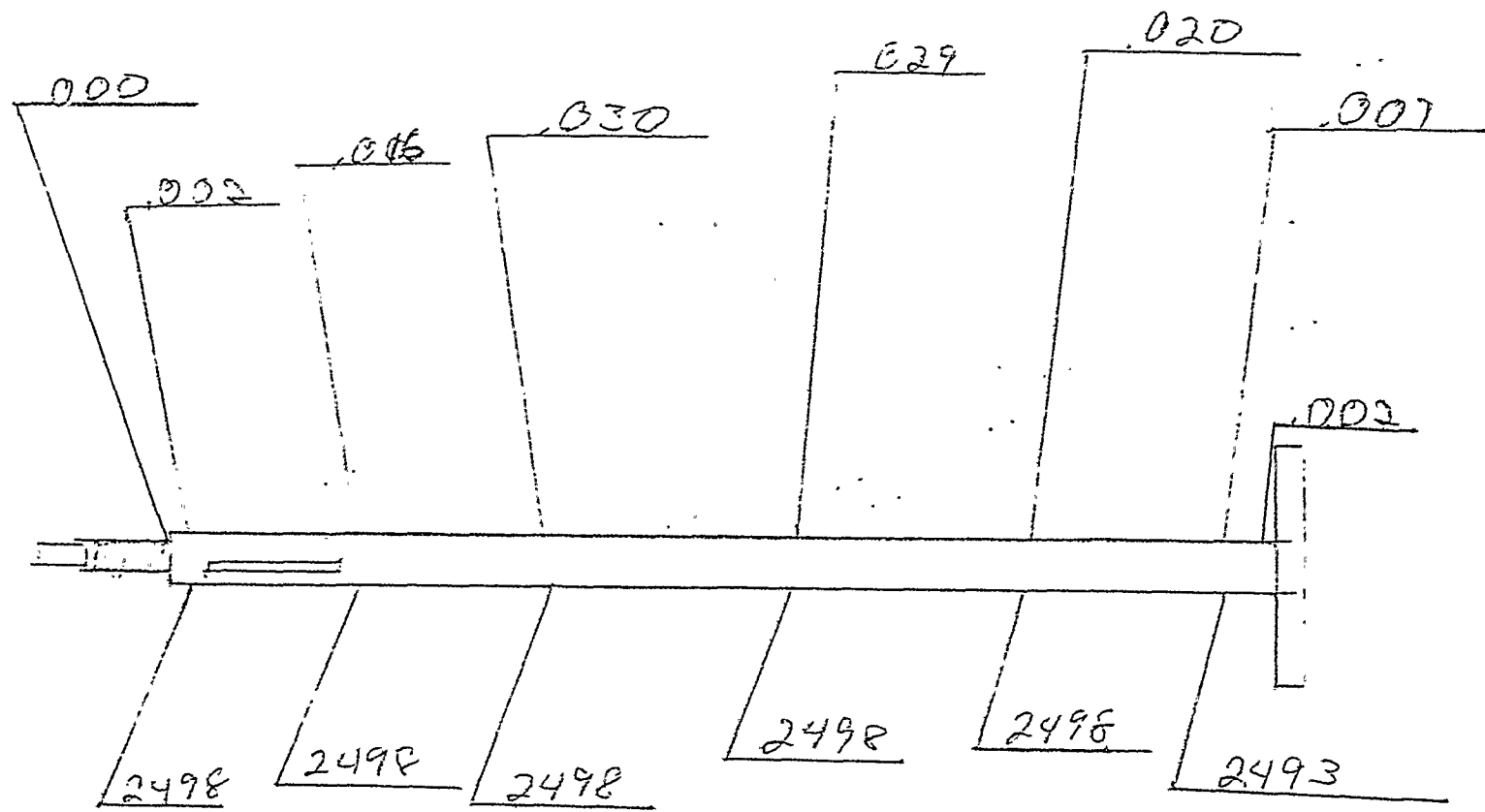
KA 114-1-P

AS FOUND REPORT

TAKEN BY



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b7C

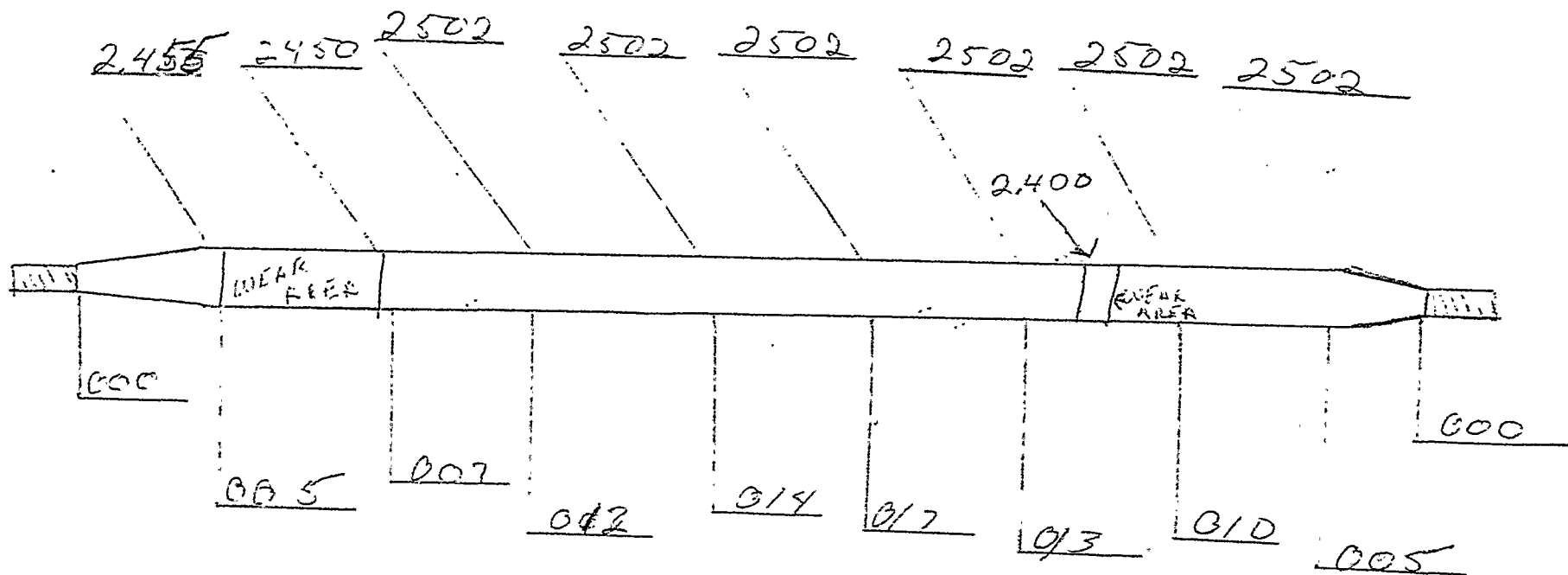


114-2-P

AS Found

Taken By

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b7C

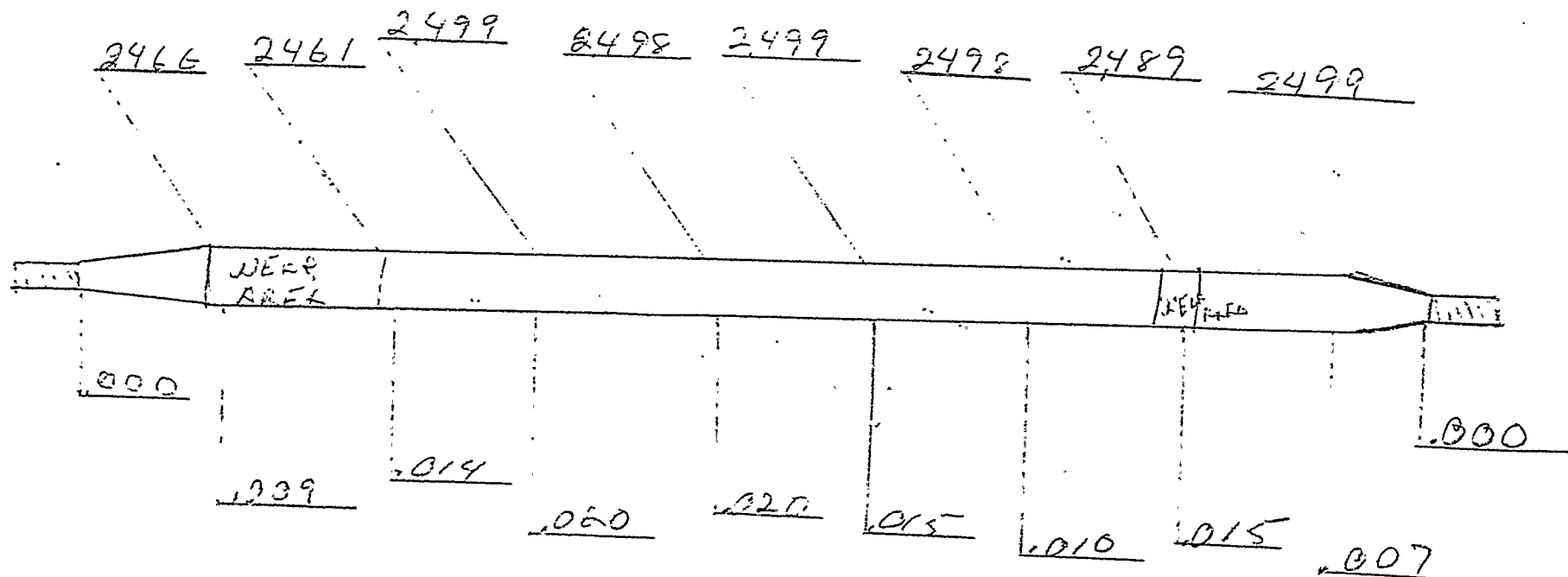


114-1-P

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MAKOW BY

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b7C





1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS LCM-8 #765 \* 783

REF.

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-003

583-41-004

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-20

DATE SUBMITTED 10-19-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-15-81

b6

b7C

RE: CW 0995-7

1. Contractor has accomplished para 3.18.1 of PT VIII.. Rudders are badly XXXX pitted and eroded and . flanges are badly pitted and bent.

CONTRACTS

OCT 19 10 17 AM '81

## CONTRACTOR'S RECOMMENDED ACTION

1. Issue contractor a change order to target rudders and remove the flanges and replace with new weld buildup; lower rudder post and remachine.

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_

TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

b6

b7C

CONTRACTOR COVERED IN PARA. 3.19 OF  
BASIC.

10-21-81

DATE

SUPERVISOR OF SHIPBUILDING REP.

# Code Welding & Fabrication Co., Inc.

426 West 15th Street  
National City, California 92050

SERIAL NO. CW 0995-7  
DATE SUBMITTED 10/15/81  
CONTRACT NO. BCM 116-81  
PLANNER

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA  
VIA: SUPSHIP FIELD REPRESENTATIVE

IPN/PCN. 20  
HULL 74 CM 6765  
74 CM 6783

SUBJ: USS Durham LKA-114 SPEC. NO. SD-688-81 ITEM NO. 583-14-3 MOD NO.

## CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

Contractor has noted that rudders are badly pitted and eroded and flanges are badly pitted and bent.

114-1 Port  
114-1 Starboard  
114-2 Port  
114-2 Starboard

*VIII*  
*3-18-1*

## CONTRACTOR'S RECOMMENDED ACTION:

- A. Issue contractor a Change Order to target rudder and remove the flanges and replace with new.
- B. Weld buildup; lower rudder post and remachine.

REPLY REQUIRED BY As soon as possible  
TO COMPLETE ITEM WITHIN AVAILABILITY

SIGNATURE OF ORIGINATOR, TITLE & AUTH.

SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS

SIGNATURE OF SUPSHIP REPRESENTATIVE

Code Welding & Fabrication Co., Inc.

426 West 15th Street  
National City, California 92050

SERIAL NO. CW 0995-8  
DATE SUBMITTED October 15, 1981  
CONTRACT NO. BCM 116-81  
PLANNER

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA  
VIA: SUPSHIP FIELD REPRESENTATIVE

IPN/PCN 20  
HULL 74 CM 6765  
74 CM 6783

SUBJ: USS Durham LKA-114 SPEC. NO. SD-688-81 ITEM NO. 583-14-3 MOD NO. \_\_\_\_\_

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

Required "as found" report of rudders

To:



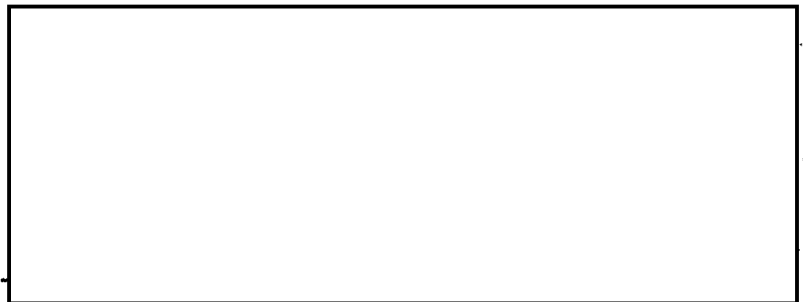
CONTRACTOR'S RECOMMENDED ACTION:

Required "as found" report

b6  
b7c

REPLY REQUIRED BY \_\_\_\_\_  
TO COMPLETE ITLM WITHIN AVAILABILITY

SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS



SIGNATURE OF SUPSHIP REPRESENTATIVE

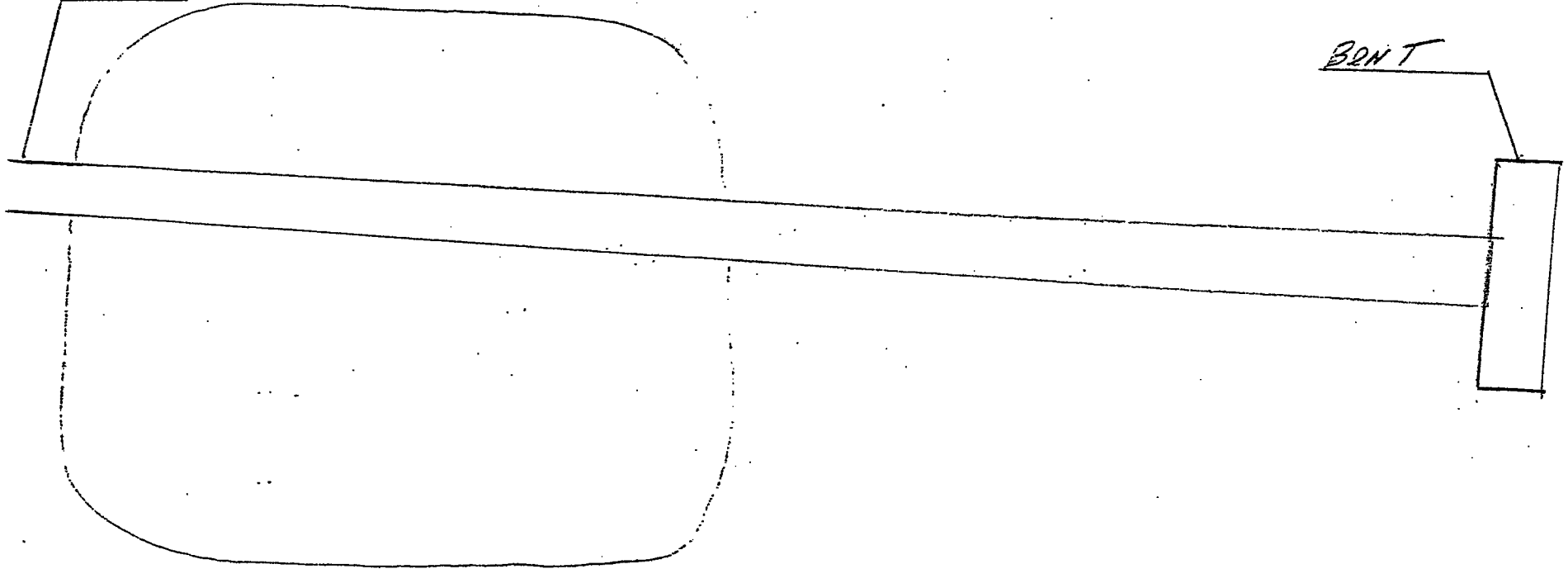
CM 6765

AS FOUND

114-1. P00T

3rd/4th woen

BONT



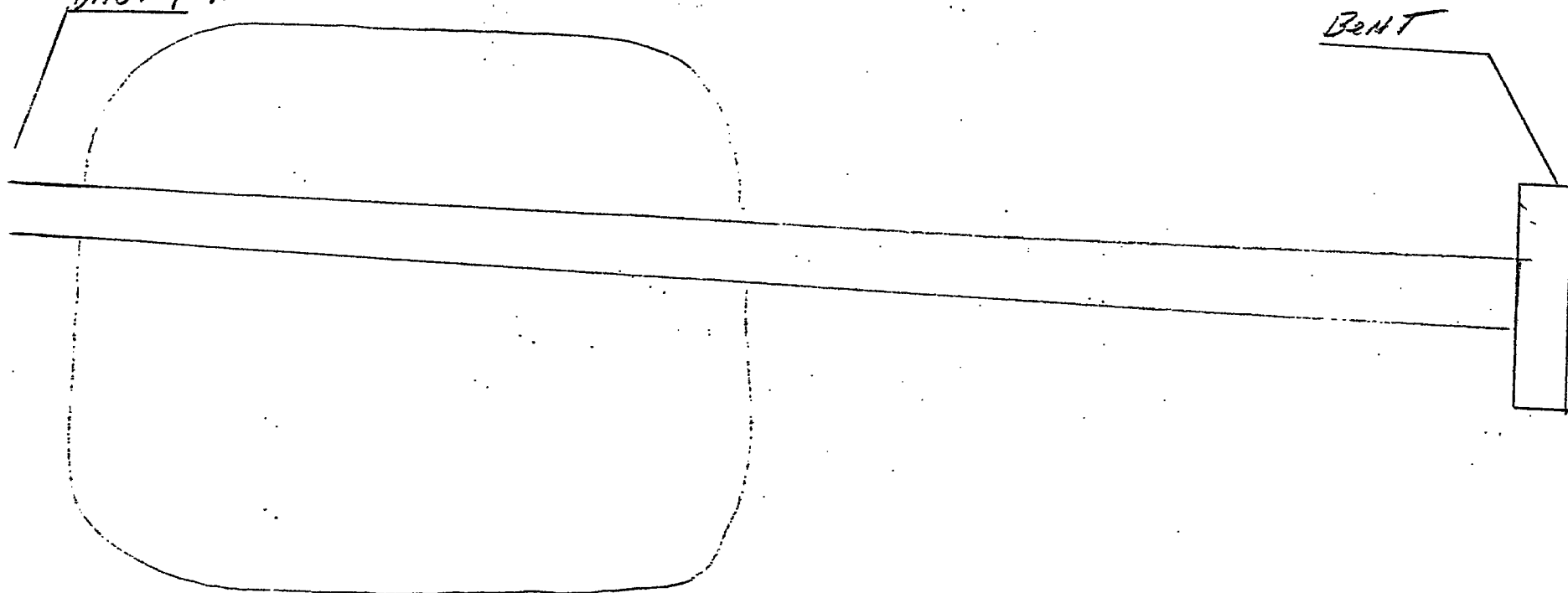
14421 6783

AS FOUND

114-1.5T812

Badley woen

BENT

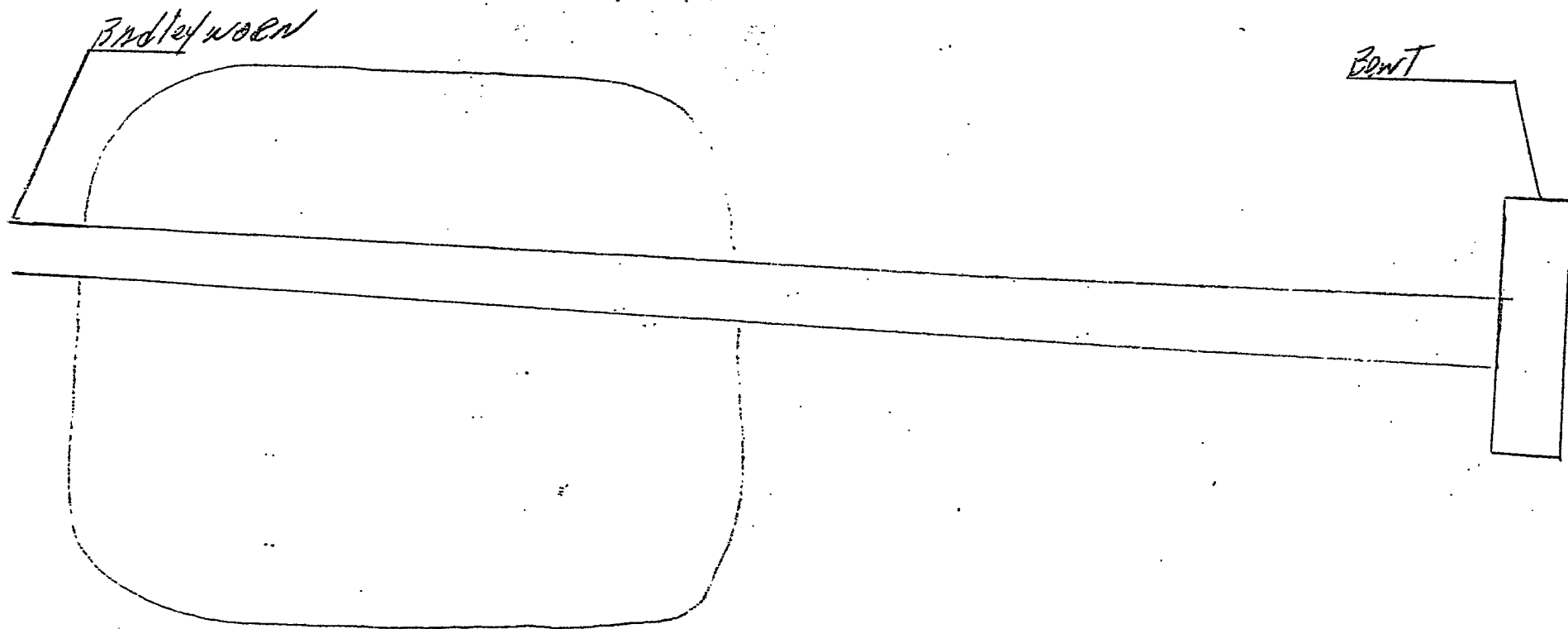




RECEIVED 74 CM 6783

AS FOUND

114-2 PORT

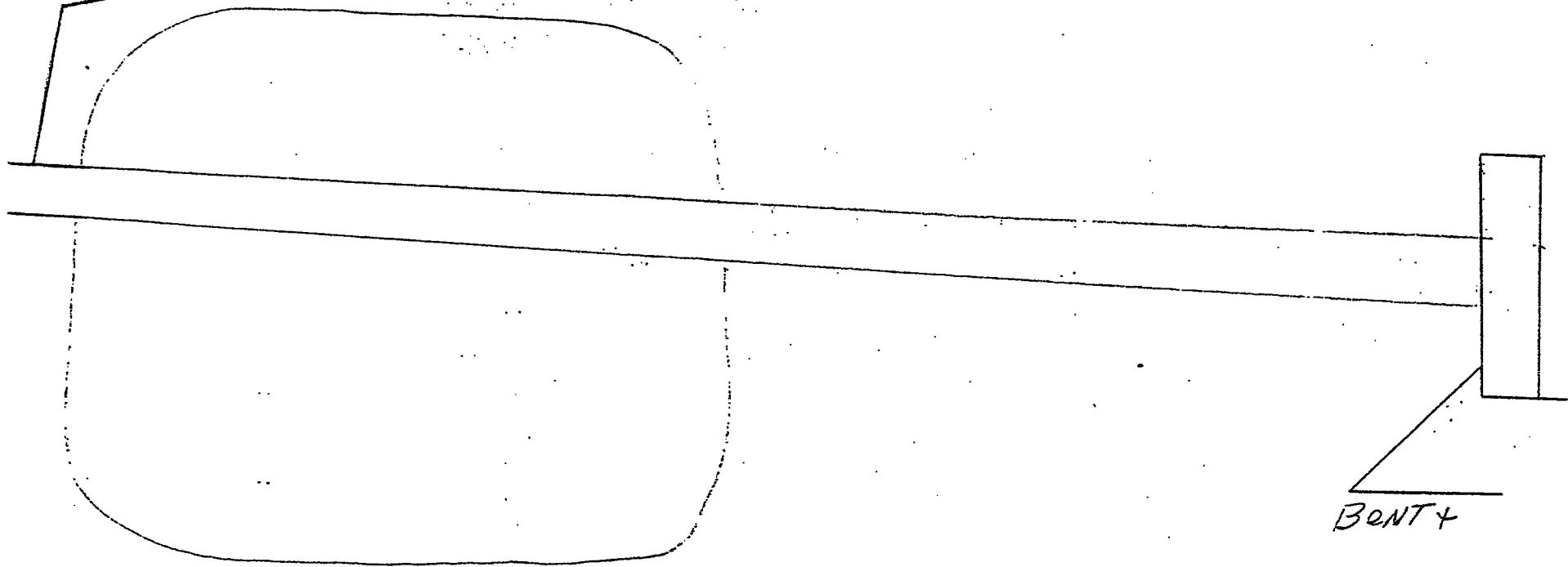


74-CA 6763

As Found

114-2. STBD

Bradley WREN





1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-8's  
REF. FUEL TANK PRESVTN

SPEC. PKG. NO. SD  
688-81

ART. NO.  
583-41-003  
583-41-004

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-31  
DATE SUBMITTED 10-19-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR [REDACTED]  
INSPECTION DATE [REDACTED]  
RE: RW

b6  
b7C

THE SPECIFICATIONS DO NOT REQUIRE CONTRACTOR TO ABRASIVE BLAST FUEL TANKS ON LCM-8.

## CONTRACTOR'S RECOMMENDED ACTION

ISSUE CONTRACTOR A CHANGE ORDER TO ABRASIVE BLAST INSIDE AND OUTSIDE (4) FUEL TANKS ON 2 LCM-8's.

OCT 19 3 00 PM  
CONTRACTS

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY  
SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

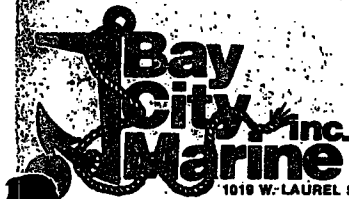
*NO ADDITIONAL WORK AUTHORIZED.*

b6  
b7C

*10-21-81*

DATE

SUPERVISOR OF SHIP BUILDING REP.



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8387

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1503-10  
SUBJECT: USS DURHAM  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO.  
ALL

MOD.

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-33

DATE SUBMITTED 10-20-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE

b6  
b7C

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

AS OF THIS DATE, MANY IDR'S HAVE NOT BEEN ANSWERED AND MANY PHASES OF THE JOB ARE HELD UP PENDING A DECISION FROM SUPSHIP. THIS TYPE OF INDECISION WILL DEFINITELY HAVE AN IMPACT ON COMPLETING THE CONTRACT ON TIME.

## CONTRACTOR'S RECOMMENDED ACTION

EXPEDITE THE ANSWERING OF IDR'S ASAP.

SIGNATURE OF  
ORIGINATOR

b6  
b7C

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-8  
REF.

SPEC. PKG. NO. SD  
688-81

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-32  
DATE SUBMITTED 10-19-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR   
INSPECTION DATE  
RE: BCM

b6  
b7C

ART. NO. MOD.  
583-41-003  
583-41-004

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

1. The specifications do not require contractor to abrasive blast fuel tanks.

### CONTRACTOR'S RECOMMENDED ACTION

1. Issue change order to abrasive blast (4) fuel tanks.

Oct 19 81  
CONTR

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

*NO ADDITIONAL WORK AUTHORIZED.*

b6  
b7C

10-21-81  
DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.

*Little Co., Inc.*

Abrasive Blasting • Coatings

3923 PACIFIC HIGHWAY • SAN DIEGO, CALIFORNIA 92110 • (714) 297-3705

P.O. BOX 82152 • SAN DIEGO, CA 92138

Contractor's License 236815

INSPECTION/DEFICIENCY REPORT

TO: Supervisor of Shipbuilding  
Conversion and Repair  
11 ND, USN  
San Diego, CA 92136

Serial No. \_\_\_\_\_

Date 15 SEPT 81

Contr. No. \_\_\_\_\_

SUPSHIP'S Planner \_\_\_\_\_

SHIP LCM-8's

VIA: CONTRACTOR: SWM

ATTENTION: \_\_\_\_\_

SUBJECT: FUEL TANK PRESERVATION SPEC. NO. \_\_\_\_\_

ARTICLE \_\_\_\_\_ MOD \_\_\_\_\_ DATE OF INSPECTION \_\_\_\_\_

REFERENCE: \_\_\_\_\_

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

THE SPECIFICATIONS DO NOT REQUIRE CONTRACTOR  
TO ABRASIVE BLAST FUEL TANKS ON LCM-8.

CONTRACTOR'S RECOMMENDED ACTION

AUTHORIZE CONTRACTOR TO ABRASIVE BLAST  
4 FUEL TANKS ON 2 LCM-8s. PROVIDE  
FUNDS THRU MODIFICATION OF CONTRACT.

b6  
b7C



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS USS DURHAM  
REF.

SPEC. PKG. NO. SD

688-81

ART. NO.

ALL

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

AS OF THIS DATE, MANY IDR'S HAVE NOT BEEN ANSWERED AND MANY PHASES OF THE JOB ARE HELD UP PENDING A DECISION FROM SUPSHIP. THIS TYPE OF INDECISION WILL DEFINITELY HAVE AN IMPACT ON COMPLETING THE CONTRACT ON TIME.

CONTRACTOR'S RECOMMENDED ACTION

EXPEDITE THE ANSWERING OF IDR'S ASAP.

SIGNATURE OF  
ORIGINATOR

FRANK HEDDY

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

NO IDR IS ~~UNANSWERED~~ UNANSWERED EXCEPT  
ONES REQUIRING MOD. NEGOTIATION.

SIGNATURE

SUPERVISOR OF SHIPBUILDING REP.

INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-33

DATE SUBMITTED 10-20-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE

b6  
b7C

OCT 20 3 10 PM '81

CONTRACTS



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8387

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-8 #6765  
REF. PT VI, PARA 3.9

SPEC. PKG. NO. SD  
688-81

ART. NO.  
583-41-003

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-35  
DATE SUBMITTED 10-21-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR [REDACTED]  
INSPECTION DATE 10-20-81  
RE: PDS

b6  
b7C

1. The rudder servo amplifier card is beyond economical repair.

### CONTRACTOR'S RECOMMENDED ACTION

A change order be issued to contractor to <sup>replace</sup> ~~replace~~ amplifier card and test.

Oct 21 9 46 AM '81  
CONTRACTS

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

*new work not authorized Continue with  
Basic.*

10-21-81  
DATE



INSPECTION/DEFICIENCY REPORT

Serial No: 35

Date Submitted \_\_\_\_\_

Contract No: \_\_\_\_\_

SUPSHIPS Planner

REF PDS

b6

b7C

TO: Supervisor of Shipbuilding, Conversion and Repair, USN  
San Diego, California

VIA: SUPSHIPS Field Inspector

SUBJ: USS DURHAM Spec No: 688-81 Art No: 583.41-003 Mod No: \_\_\_\_\_  
OR Hull No. of (boats) LKA 114

Reference: LCM-8 OVERHAUL Date of Inspection 10/20/81  
HULL 6765

Conditions found (not covered in original specification)

REF. PAR. 3.9 of DT VI

1. THE RUDDER SERVO AMPLIFIER CARD IS  
BEYOND ECONOMICAL REPAIR

Contractor's recommended action

A CHANGE ORDER BE ISSUED TO  
CONTRACTOR TO REPLACE AMPLIFIER  
CARD & TEST.

SUPSHIPS Field Inspector

Findings and/or Recommendations

Date Received from Contractor

Signature of SUPSHIPS Representative

Date Submitted \_\_\_\_\_



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8347

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS LCM-8 #6765 & 6783

REF. PT VI, PARA 3.3

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-004

MOD.

583-41-003

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-36

DATE SUBMITTED 10-21-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-20-81

RE: PDS

b6

b7C

1. Spec calls out the removal of 2 fans per coat. Only one fan was installed per boat.

### CONTRACTOR'S RECOMMENDED ACTION

A change order be issued to contractor to provide and mount one new fan on each boat with a 6' cord and plug.

CONTRACT  
Oct 21 9 46 A

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

*new work not authorized  
Continue with Basic*

10-21-81  
DATE

INSPECTION/DEFICIENCY REPORT

Serial No: 34

Date Submitted \_\_\_\_\_

Contract No: \_\_\_\_\_

SUPSHIPS Planner \_\_\_\_\_ b6

REF. VDS \_\_\_\_\_ b7C

TO: Supervisor of Shipbuilding, Conversion and Repair, USN  
San Diego, California

VIA: SUPSHIPS Field Inspector

SUBJ: USS DURHAM Spec No: 688-81 Art No: \_\_\_\_\_ Mod No: \_\_\_\_\_

OR Hull No. of (boats) LKA 114

Reference: LCM-8 Hull # 6765 Date of Inspection 10/20/81  
Hull 6783

Conditions found (not covered in original specification)

REF. PAR 3.3 FANS. YPA VI

1. SPEC CALLS OUT THE REMOVAL  
OF 2 FANS PER BOAT. ONLY ONE FAN WAS  
INSTALLED PER BOAT.

Contractor's recommended action

A CHANGE ORDER BE ISSUED TO  
CONTRACTOR TO PROVIDE & MOUNT ONE  
NEW FAN ON EACH BOAT WITH A 6' CORD  
& PLUG.

SUPSHIPS Field Inspector

Findings and/or Recommendations

Date Received from Contractor \_\_\_\_\_

Signature of SUPSHIPS Representative \_\_\_\_\_

Date Submitted \_\_\_\_\_



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE #  
SUBJECT: USS 1509-10  
REF. LCM-8

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-003

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO.

DATE SUBMITTED 116-39

CONTRACT NO. BCM 10826-81

PLANNER/SURVEYOR 116-31

INSPECTION DATE

RE: NPI

b6

b7C

The following conditions were noted and recorded during the disassembly, cleaning and inspecting of the (8) each accumulators. (1) each accumulator type ACB-30671108 S/N 618896 is eroded at the seal area.

### CONTRACTOR'S RECOMMENDED ACTION

Issue the contractor to replace with new one each accumulator.

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_

TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-9367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-10  
SUBJECT: USS USS DURHAM  
REF. LCN 8- OVERHULL

SPEC. PKG. NO. SD  
688-81

ART. NO.  
583-41-003

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

REF PARA 3.12 of 009-17. FY82, 12 Sept 80

1) Two (2) alternators: There were no defects found that were not covered by the basic specifications.

CONTRACTOR'S RECOMMENDED ACTION

REPORT ONLY

3-8-1-1

SIGNATURE OF  
ORIGINATOR

[Signature box]

REPLY REQUESTED BY: \_\_\_\_\_  
COMPLETE ARTICLE WITHIN AVAILABILITY  
SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-47  
DATE SUBMITTED 11-3-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR [Redacted]  
INSPECTION DATE 10-27-81  
RE: CAL

b6  
b7C



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE #

1809-10

SPEC. PKG. NO. SD

ART. NO.

MOD.

SUBJECT: USS

USS DUNHAM

688-81

583-41-004

REF.

PARA 3.12 of 009-17 CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

1) Two (2) alternators: There were no defects found that were not covered by basic specifications.

#### CONTRACTOR'S RECOMMENDED ACTION

1) REPORT ONLY

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY:

COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.

## INSPECTION / DEFICIENCY REPORT

REPORT NO.

DATE SUBMITTED

CONTRACT NO. BCM

PLANNER/SURVEYOR

INSPECTION DATE

RE: CAL

116-48

11-3-81

116-81

10-27-81

b6  
b7C



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR  
SAN DIEGO, CA 92136

VIA: CODE # 1509-10

SUBJECT: USS LCM-8 USS DURHAM

REF. LOT 10

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-003 & 004

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

CONTRACTOR WAS DIRECTED ON 10-30-81 BY SUPSHIP TO INSTALL ORIGINAL BEARINGS IN ALL  
FOUR MARINE TRANSMISSIONS.

CONTRACTOR WILL NOT BE RESPONSIBLE FOR TRANSMISSION FAILURE DUE TO THIS DECISION.

CONTRACTOR'S RECOMMENDED ACTION

INFORMATION ONLY

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: \_\_\_\_\_

COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-49

DATE SUBMITTED 11-3-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE

RE: BCM

b6  
b7C



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-10  
SUBJECT: USS USS DURHAM  
REF. LOT 10

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-003 A004

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-50  
DATE SUBMITTED 11-3-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR [REDACTED]  
INSPECTION DATE [REDACTED]

RE: BCM

b6  
b7C

CONTRACTOR HAS BEEN VERBALLY DIRECTED BY SUPSHIP ON 10-30-81 TO INSTALL THE REJECTED  
CRANKSHAFT IN ENGINE S/N 12VAG21279S AS REPORTED ON LOT-10 (ATTACHED). CONTRACTOR  
WILL NOT BE RESPONSIBLE FOR ENGINE FAILURE DUE TO THIS DECISION.

CONTRACTOR'S RECOMMENDED ACTION

INFORMATION ONLY

01/11/81

SIGNATURE OF  
ORIGINATOR

[REDACTED]

REPLY REQUESTED BY: \_\_\_\_\_  
COMPLETE ARTICLE WITHIN AVAILABILITY  
SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.





1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO.  
583-41-002  
PT VI

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-38  
DATE SUBMITTED 10-23-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR  
INSPECTION DATE  
RE: BCM

b6  
b7C

BATTERY BOX IS NON-EXISTING. REFERENCES GIVEN DO NOT SHOW BATTERY BOX CONSTRUCTION.

## CONTRACTOR'S RECOMMENDED ACTION

SUPPLY CONTRACTOR WITH CORRECT REFERENCE TO CONSTRUCT BATTERY BOX.

Oct 23 10 45

CONTRACTS

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

*Correct reference issued Continues  
with basic.*

11-3-81

DATE



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6 #6761  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO.  
583-41-002

MOD.

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-11  
DATE SUBMITTED 10-14-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR   
INSPECTION DATE 10-12-81  
RE: CW1348-11

b6  
b7C

## CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

### RUBBER FENDERING

UPON INSPECTION, IT WAS NOTED THAT THE SHACKLES THAT HOLD THE LOWER CHAIN OF THE RUBBER FENDERING ARE MISSING. TOTAL OF TWELVE (12): SIX PORT AND SIX STARBOARD.

OCT 14 9 50 AM '81  
CONTRACTS

## CONTRACTOR'S RECOMMENDED ACTION

ISSUE CHANGE ORDER TO REPLACE SHACKLES WITH PAD-EYES, TOTAL OF TWELVE (12).

PROCURE SHACKLES TO ATTACH CHAIN TO PAD-EYES. TOTAL OF TWELVE (12) SHACKLES.

SIGNATURE  
ORIGINATOR

REPLY REQUESTED BY: URGENT  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

*Covered in mod #1*

11-3-81

DATE



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO.  
583-41-002

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-6  
DATE SUBMITTED 10-13-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR [REDACTED]  
INSPECTION DATE 10-12-81  
RE: CW1348-6

b6  
b7C

BY DIRECTION OF SUPSHIPS, THE FIRE EXTINGUISHER BRACKET WAS REMOVED FROM BULKHEAD.  
BRACKET IS RUSTED AWAY AND BROKEN.

### CONTRACTOR'S RECOMMENDED ACTION

ISSUE CHNGE ORDER TO REMOVE BRACKET, REPLACE WITH NEW AND REINSTALL.

CONTRACTS  
OCT 13 2 43 PM '81

SIGNATURE OF  
ORIGINATOR

[REDACTED SIGNATURE]

REPLY REQUESTED BY: ASAP  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

*Covered by mod #1*

11-3-81

DATE

[REDACTED]



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO.

MOD.

583-41-002

PT III OF IX

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-7

DATE SUBMITTED 10-13-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-12-81

RE: CW1348-7

b6  
b7C

UPON INSPECTION IT WAS NOTED THAT THE BOW RAMP GASKET WAS DAMAGED AND PARTLY MISSING.

## CONTRACTOR'S RECOMMENDED ACTION

ISSUE CHANGE ORDER TO REMOVE GASKET AND RETAINERS, WELD BUILDUP AND GRIND GASKET SEALING SURFACE, SANDBLAST AND PAINT SEALING AREAS. REPLACE WITH NEW THE GASKET AND RETAINERS, CHALK AND HOSE TEST BOW RAMP GASKET.

Oct 13 2 42 P  
CONTRACT

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: ASAP  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

*Covered by mod #1*

*11-3-81*  
DATE



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS LCM-6

REF. STEERING SYSTEM

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-002

MOD.

PT VIII

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. ~~XXX XXXXXX~~ 116-24

DATE SUBMITTED 10-19-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-15-81

RE: CW 1348-17

b6

b7C

1. Helm bore is deteriorated beyond repair due to dissimilar metals. Helm is aluminum and shaft is steel.
2. Helm shaft is twisted and dented.
3. Chain sprocket is worn.

### CONTRACTOR'S RECOMMENDED ACTION

Issue change order to:

1. Procure and install a new helm.
2. Procure and install new xxx helm shaft.
3. Procure and install new chain sprocket.

Oct 19 3 00

CONTRACT

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY:

TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

MOD #2 APPLIES TO PARA. 1 & 2

NO ADDITIONAL WORK AUTHORIZED ON PARA. #3

11-3-81

DATE



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-8 765 & 783  
REF.

SPEC. PKG. NO. SD 688-81 ART. NO. 583-41-004 MOD.  
PT VIII

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-51  
DATE SUBMITTED 11/16/81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR  
INSPECTION DATE  
CW 00995-11,12,13

b6  
b7C

## CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

1. Item 583-41-004 PT VIII, para 3.22 directs contractor to remove the propellers, but does not indicate re-installation.
2. Upon completion of para 3.19, it became evident that the thrust support bracket is not in line with the rudder bearing and tube.
3. Para 3.20.1 directs contractor to make adjustments to the rudders. Inspection reveals that the steering arms are badly bent in the adjustment areas, and contractor feels that they will break if straightening is attempted.

## CONTRACTOR'S RECOMMENDED ACTION

1. Request SUPSHIP direction.
2. Issue contractor a change order to relocate support bracket for true alignment, total of four (4) brackets.
3. Issue contractor a change order to replace the threaded areas.

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: URGENT!!!!  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS LCM-8 #6765 & 6783

REF.

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-004

MOD.

PT VII

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

### S.W. COOLING AND DRAIN VALVES

Para 3.4.3 - Contractors attempt to complete work outlined in this para revealed the following: Valves are aluminum with stainless steel trim. The seat retainer is aluminum and the seat, stainless steel. Due to corrosion and electrolysis, the seat and retainer have become as one. The seats are replaceable.

NOV 17 3 04 PM '81  
CONTRACTS

### CONTRACTOR'S RECOMMENDED ACTION

Issue contractor a change order to manufacture new retainers from stainless steel material and install two (2) new seats. Upon completions of repairs, hydrostatically test valves.

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_

OR COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

MOD #9 APPLIES

11-24-81

DATE



1411 HARDING AVENUE • NATIONAL CITY, CA 92050 • (714) 474-8121

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS LCM-8 60765 & 60763

REF.

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-104

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

### S.W. COOLONG AND DRAIN VALVES

Para 3.4.3 - Contractors attempt to complete work outlined in this para revealed the following: Valves are aluminum with stainless steel trim. The seat retainer is aluminum and the seat, stainless steel. Due to corrosion and electrolysis, the seat and retainer have become as one. The seats are replaceable.

### CONTRACTOR'S RECOMMENDED ACTION

Issue contractor a change order to manufacture new retainers from stainless steel material and install two (2) new seats. Upon completions of repairs, hydrostatically test valves.

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_

COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

DATE

SIGNATURE  
SUPERVISOR OF SHIPBUILDING REP.

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 11C-83

DATE SUBMITTED 11-17-01

CONTRACT NO. BCM 11C-81

PLANNER/SURVEYOR

INSPECTION DATE

RE: CM 1040-1

b6

b7C



**Code Welding & Fabrication Co., Inc.**

426 West 15th Street  
National City, California 92050

SERIAL NO. CW 0995-12  
DATE SUBMITTED 11/12/81  
CONTRACT NO. BCM 116-81  
PLANNER [REDACTED]

b6  
b7C

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA

IPN/PCN 21  
HULL 74 CM 6765

VIA: SUPSHIP FIELD REPRESENTATIVE

74 CM 6783

Pt. VIII of IX

SUBJ: USS DURHAM (LKA-114) SPEC. NO. SD 688-81 ITEM NO. 583-41-004 MOD NO.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

STEERING ARMS

Paragraph 3.20.1 directs contractor to make adjustments to the rudders. Inspection reveals that the steering arms are badly bent in the adjustment areas, and contractor feels they will break if straightening is attempted.

CONTRACTOR'S RECOMMENDED ACTION:

Issue contractor a change order to replace the threaded areas.

REPLY REQUIRED BY \_\_\_\_\_  
TO COMPLETE ITEM WITHIN AVAILABILITY



SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS

\_\_\_\_\_  
SIGNATURE OF SUPSHIP REPRESENTATIVE

\_\_\_\_\_  
DATE

# Code Welding & Fabrication Co., Inc.

426 West 15th Street  
National City, California 92050

SERIAL NO. ... CW 0995-13  
DATE SUBMITTED ... 11/12/81  
CONTRACT NO. ... BCM 116-81  
PLANNER ...

b6  
b7C

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA  
VIA: SUPSHIP FIELD REPRESENTATIVE

IPN/PCN ... 21  
HULL ... 74 CM 6783  
74 CM 6765

SUBJ: USS DURHAM (LKA-114) SPEC. NO. SD 688-81 ITEM NO. 583-41-004 MOD NO. Pt VIII of IX

## CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

### THRUST SUPPORT BRACKETS (RUDDER)

Upon completion of Paragraph 3.19, it became evident that the thrust support bracket is not in line with rudder bearing and tube.

### CONTRACTOR'S RECOMMENDED ACTION:

Issue contractor a change order to relocate support bracket for true alignment total. Total - four (4) brackets

REPLY REQUIRED BY 11/16/81  
TO COMPLETE ITEM WITHIN AVAILABILITY

SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS

SIGNATURE OF SUPSHIP REPRESENTATIVE

DATE

# Code Welding & Fabrication Co., Inc.

426 West 15th Street  
National City, California 92050

SERIAL NO. CW 0995-11  
DATE SUBMITTED 11/12/81  
CONTRACT NO. BCM 116-81  
PLANNER

b6  
b7C

TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION & REPAIR, USN  
SAN DIEGO, CALIFORNIA

IPN/PCN 21  
HULL 74 CM 6783  
74 CM 6765

VIA: SUPSHIP FIELD REPRESENTATIVE

SUBJ: USS DURHAM, LKA-114 SPEC. NO. SD 688-81 ITEM NO. 583-41-004 MOD NO. \_\_\_\_\_

## CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

### PROPELLERS

Paragraph 3.22 directs contractor to remove the propellers, but does not indicate reinstallation.

### CONTRACTOR'S RECOMMENDED ACTION:

Issue contractor a change order to install propellers/

REPLY REQUIRED BY 11/16/81  
TO COMPLETE ITEM WITHIN AVAILABILITY



SUPSHIP FIELD REPRESENTATIVE'S  
FINDINGS AND/OR RECOMMENDATIONS

SIGNATURE OF SUPSHIP REPRESENTATIVE

DATE

DEPARTMENT OF THE NAVY  
SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR, USN.

PRICE PROPOSAL  
13 NO SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SEATTLE, WASHINGTON 98115

PAGE 1 OF 1 PAGES

SHIP SS	USS DURHAM LKA-114 (SMALL BOATS)	JOB ORDER NO. BCM 116-81	SERIAL NO. 17/9
------------	----------------------------------	-----------------------------	--------------------

COAR NO: 16-584

ITEM NO: 583-41-003

PCN: 20

PLANNER:

b6

b7C

TITLE: LCM 8 OVERHAUL - DURHAM LKA-114  
(SMALL BOATS)

1. SCOPE: IDR # 51,53

2. REFERENCES:

• CAG STANDARD ITEMS

CB1 NAUSEA S90 B6-HP-STM-000/CH-245

3. REQUIREMENTS:

3.1 INSTALL PROPELLERS. (2 EA)

3.2 ALIGN SUPPORT BRACKET. (2 EA.)

3.3 REPLACE THREADED AREAS ON STEERING ARMS.

3.4 PRIME AND PAINT NEW AND DISTURBED AREAS.

3.5 REPAIR COOLING AND DRAIN VALVES. (4 EA.)

DEPARTMENT OF THE NAVY  
SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR, USN.

PRICE PROPOSAL  
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SEATTLE, WASHINGTON 98115

PAGE 1 OF PAGES

SHIP SS	USS DURHAM LKA-114 (SMALL BOATS)	JOB ORDER NO.	SERIAL NO. 18/10
------------	----------------------------------	---------------	---------------------

COAR NO: 16-589

ITEM NO: 583-41-004

PCN: 21

PLANNER:

b6  
b7C

TITLE: LCM-8 OVERHAUL - DURHAM LKA-114

1. SCOPE: IDOR # 51

2. REFERENCES:

(A) STANDARD ITEMS

(B) NAUSEA \$ 9086 - HP-STM-000 / CH-245

3. REQUIREMENTS

3.1 INSTALL PROPELLERS 2 EA.

3.2 ALIGN SUPPORT BRACKETS 2 EA.

3.3 REPLACE THREADED AREAS ON STEERING HELMS,

3.4 PRIME AND PAINT NEW AND DISTURBED AREAS.

ITEM NO. 35-51 00000

PCN: 24

# PLANNER

**TITLE:**

571426 BARTS 000000 10/11 2 1-42-002

SCOPE: FOR # 116-6

E. NEERANKA'S

- (A) "STANDARD" 2200'S  
(B) STEEL STRUCTURES

### B. REQUIREMENTS

- 3.1 INSTALL FINE EXTERIOR GROUT
- 3.2. INSTALL COARSE GROUT
- 3.3 INSTALL 1/2" RUBBER FEMMING STRIPS
- 3.4 CLEAN, PRIME AND PAINT NEW WORK  
AND DISTURBED SURFACE TO MATCH SURROUNDING  
AREAS.

☒ Above work will be completed by current Job Order  
☐ Above work will require Job Order completion date

The undersigned agrees that the above-specified work and disruptions involved in this work and will be completed by \_\_\_\_\_.

**AUTHORIZED CONTRACTOR REPRESENTATIVE**

**CONTRACTOR**

The undersigned certifies that the above job, as described

SHIP SURVEYOR

Signature \_\_\_\_\_

**Dat:**

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature

**Date**

SHIP USS	USS DURHAM LKA-114 (SMALL BOATS)	JOB ORDER NO. BOM 116-B1	SERIAL NO. 010/2
-------------	----------------------------------	-----------------------------	---------------------

COAR NO: 16-584

ITEM NO: 583-41-002

PCN: 24

PLANNER:

b6  
b7C

TITLE: DURHAM LKA-114 (SMALL BOATS)

1. SCOPE: <sup>#</sup>IDR 2, 24, 28

## 2. REFERENCES

- (A) STANDARD ITEMS
- (B) NAVSHIPS 0900-014-1010
- (C) BUSHIPS DWG LCM-245-1534719 REVE

## 3. REQUIREMENTS

- DE 3.1 REPLACE RUDDER POSTS & BLADES, & ARMS.
- DE 3.2 REPAIR HELM & HELM SHAFT.
- DE 3.3 REPAIR PROPULSION SHAFTS.
- DE 3.4 CLEAN PRIME AND PAINT NEW AND DISTURBED SURFACES TO MATCH SURROUNDING AREAS.

SHIP USS	USS DURHAM LKA-114 (SMALL BOATS)	JOB ORDER NO. BCM 116-81	SERIAL NO. 011/3
-------------	----------------------------------	-----------------------------	---------------------

COAR NO: 16-584

ITEM NO: 583-41-003

PCN: 20

PLANNER:

b6  
b7C

TITLE: USS DURHAM LKA-114 (SMALL BOATS)

1. SCOPE: IDR # 13, 16, 19, 20

2. REFERENCES

(A) REFER TO BASIC PART B OF 9 PAGE 1.

3. REQUIREMENTS

- M 3.1 REPLACE BILGE MANIFOLD NIPPLES.
- M 3.2 CONDUCT LT ON STRUTS AND BOTTOM PLATING.
- DES 3.3 REPAIR PROPUSSION SHAFTS.
- DES 3.4 REPAIR RUDDER FLANGES AND POST.
- DES 3.5. CLEAN PRIME AND PAINT NEW AND DISTURBED SURFACES TO MATCH SURROUNDING AREAS.



SHIP USS DURHAM LKA-114 (SMALL BOATS) JOB ORDER NO. BCM 116-81 SERIAL NO. 012/4

COAR NO: 16-584

ITEM NO: 583-41-004

PCN: 21

PLANNER:

b6  
b7C

TITLE: DURHAM LKA-114 (SMALL BOATS)

1. SCOPE: IDR # 19, 20

2. REFERENCES

(A) REFER TO PART 8 OF 9 PAGE 1 OF BASIC

3. REQUIREMENTS

DE 3.1 REPAIR 2EA. PRO PULSION SHAFTS.

DE 3.2. REPAIR RUDDERS FLANGES AND POST.

DE 3.3. PRIME, PAINT NEW AND DISTURBED SURFACES TO  
MATCH SURROUNDING AREAS.

SHIP  
USS DORHAM

COAR NO: 76-5164

TITLE:

WALL COATS

1. SCOPE:

100 # 41 40 100

2. SCOPE:

WALL COATS

3. REQUIREMENTS:

WALL COATS

3.1 REPLACE WALL COATS

3.2 REPLACE WALL COATS

3.3 REPLACE WALL COATS

3.4 PRIME AND WALL COATS

BEST COPY

- ☒ Above work will be completed by current contract  
☐ Above work will require Job Order completion

The undersigned agrees that the above specified work will be completed with minimal disruptions involved in this work and will be completed by the date specified.

AUTHORIZED CONTRACTOR REPRESENTATIVE

CONTRACTOR

The undersigned certifies that the above job is to be completed by the date specified.

SHIP SUR  
Signature

[Signature Box]

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature

b6  
b7C

SHIP USS HURSTON

COAR NO: 76-522

BEST  
COPY

TITLE: SMALL GATE

SCOPE: LOT-12 AS

2. REFERENCES

- (A) STANDARD SPEC
- (B) NASSA 070-1

3. LOG REPAIRS

3.1 - LOG FOLLOWING

CONNECTING ROD  
END PLATE - 512  
DEVELOP COUPLING  
ACCUMULATOR -  
VALVE COVER

- ☒ Above work will be completed by current contract
- ☐ Above work will require Job Order completion

The undersigned agrees that the above specified work may cause interruptions involved in this work and will be completed

AUTHORIZED CONTRACTOR REPRESENTATIVE

CONTRACTOR

The undersigned certifies that the above job, as described

SHIP SURVEYOR

Signature

Date

Signature

Date

b6  
b7C

SHIP  
JOB

COAR NO: 76-588

03-41-004

TITLE: 01922 BOAT

BEST  
COPY

1. SCOPE: LOT-11 AS FOLLOWS

2. REFERENCES

(1) STANDARD

(2) NAUSEA

3. REQUIREMENTS

3.1. 01922

1. LIGHT

2. NOISE

3. VIBRATION

4. AIR QUALITY

5. TEMPERATURE

6. HUMIDITY

- ☒ Above work will be completed by current Job Order completion date
- ☐ Above work will require Job Order completion date extension to

The undersigned agrees that the above-specified work  
disruptions involved in this work and will be completed

AUTHORIZED CONTRACTOR REPRESENTATIVE

CONTRACTOR

The undersigned certifies that the above job, as described

SHIP SURVEYOR

Signature \_\_\_\_\_ Date \_\_\_\_\_

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT

Signature

Date

b6  
b7c



## IDR's / LOT's LOG REPORT

Contract No. 116-81

LOT'S

Vessel: LCM' 765 , 783

LOT NO.	DATE	SUB IDR	ITEM NO.	SUBJECT	MOD NO.	DATE	REMARKS
6	10-12-1		583-41	REQUEST FORMAL HULL INSPECTION	X	10-15	765 RCVD & NOTED 1300-10-14-1
1	10-2-1		"	DAR "B" 502 FORM	X		
2	10-2-1		"	SCHEDULE OF EVENT REPORTS	X	10-8	RECVD 10-8-1 CODE 150911D
3	10-2-1		"	PERSONNEL AUTHOR TO RE-FORM INSP & TEST	X		
2 R1	10-9-1		"	RESUBMITTED SCHEDULE OF EVENTS	X		
8	10-12-1		"	PCD FOR FLUSH OF HND STEERING SYS	X		
10	10-15-1	NPI	"	AS FOUND REPORT			
11	10-15-1	NPI	"	AS FOUND REPORT			
			"	AS FOUND REPORT			
			"	AS FOUND REPORT			
11A	10-20	BCM	"	FORMAL HULL INSPECTION 0900 10-22-1	X	10-21	TIME & DATE RECEIVED
15	10-28	BCM	"	NDT - REPORT	X	10-28	RCVD & NOTED
17	10-29	BCM	"	SURGE TEST	X	10-30	RECVD & NOTED
19	11-6	PDS	"	BALANCE REPORTS ALTERNATE ROTORS	X		
20	11-6	PDS	"	BAL REPORT ALTERNATE ROTORS	X		

# LETTER OF TRANSMITTAL

No. NOT 1

FROM:

**BAY CITY MARINE, INC.**

1411 Harding Avenue  
National City, CA 92050

Contract: 116-81

Date: 10-2-81

Vessel: LCM-8

Hull: 765 & 783

Item: 583.41 PART II of IX

Mod. \_\_\_\_\_

Spec. S/D 583-81

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

b6  
b7C

Attn: Code # 1509.10

- ☐ Required Report(s)
- ☐ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/ O 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

Enclosure(s):

10 DAR-88 502

CONTRACTS  
SEP 32 2 50 PM '81

Comments:

Enclosure (1) forwarded in accordance with para 3.4.2 of Item Part II of IX

BAY CITY MARINE, INC.

Signature

ate: \_\_\_\_\_

10-2-81

Supships

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

SHIP *USS Durham 765-783* CONTRACTOR *Bay City Marine* SUB-CONTRACTOR *Channing Dynamics* CONTRACT NO. *116-81* L.O.T. NO.

TYPE PETROLEUM PRODUCT REMOVED FROM TANK NO.	ITEM NO.	PUMPED TO TANK/ BARGE/TRUCK NO.	DATE REMOVED FROM SHIP	KOLOR KUT TAPE READING		NUMBER OF GALLONS REMOVED	REMARKS
				START	FINISH		
1 <i>Diesel</i>	<i>583-41 003</i>		<i>9-30-81</i>			<i>0</i>	<i>Tanks were empty.</i>
2 <i>Diesel</i>	<i>1111</i>		<i>↓</i>			<i>0</i>	<i>When sample was</i>
3 <i>Diesel</i>	<i>583-41- 004</i>		<i>↓</i>			<i>0</i>	<i>to be taken by</i>
4 <i>Diesel</i>	<i>↓</i>		<i>↓</i>			<i>0</i>	<i>contractor</i>
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

## CERTIFICATION:

ABOVE INVENTORY HAS  
BEEN VERIFIED ACCURATE

DATE:

SUPSHIP SURVEYOR

OR

SHIP'S REPRESENTATIVE

DATE:

PRIME CONTRACTOR

b6

b7C

NO FUEL/OIL WAS REMOVED  
FOR ABOVE SHIP & CONTRACT

SIGNATURE/RANK/RATE

DATE:

FUEL ANNEX SIGNATURE



## LETTER OF TRANSMITTAL

No. 1

FROM:

**BAY CITY MARINE, INC.**1411 Harding Avenue  
National City, CA 92050  
(714) 474-8121Contract: 116-81 Date: 11-1-1Vessel: LCM -8 Hull: 765 & 783Item: 583.41 <sup>part 11 of 1X</sup> ~~part 3.4.2~~ Mod. \_\_\_\_\_Spec. S/D 688-81TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # 1509.1D b6  
b7C

- ☒ Required Report(s)
- ☐ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/D 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

Enclosure(s):

(1) DAR "B" 502

Comments:

Enclosure (1) is forwarded in accordance with para 3.4.2  
of item Part II of 1X.

BAY CITY MARINE, INC.

Signature:  Date: 11-1-1

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# LETTER OF TRANSMITTAL *HC*

No. #2

FROM:

**BAY CITY MARINE, INC.**

1411 Harding Avenue  
National City, CA 92050

Contract: 116-81 Date: \_\_\_\_\_

Vessel: 1 CM-8 1 CM-6 Hull: \_\_\_\_\_

Item: 042-01 Mod. \_\_\_\_\_

Spec. S/D 688-81

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # \_\_\_\_\_

☐ Required Report(s)

☒ Schedule of Events

☐ Excess Material

☐ Supships S/ J 4500/2

☐ Drawing(s)

☐ Test Memo

☐ J.O. Exception(s) Completed

☐ \_\_\_\_\_

Enclosure(s):

SCHEDULE OF EVENT REPORTS

1. PRODUCTION SCHEDULE
2. MANPOWER LOADING CURVE
3. SUBCONTRACTORS

CONTRACTS  
SEP 32 2 52 PM '81

Comments:

*RECEIVED 10/6/81 CODE 1509.10*



b6  
b7c

*~~DUE TO LACK OF INTEREST, PAPER~~*  
*~~IS LOST IN SYSTEM.~~*  
*~~XX~~*

BAY CITY MARINE, INC.

Signature: \_\_\_\_\_ Date: 10-2-81

Supships

Signature

Date: 10-8-81

# LETTER OF TRANSMITTAL

No. \_\_\_\_\_

FROM:

**BAY CITY MARINE, INC.**

1411 Harding Avenue  
National City, CA 92050

Contract: 115-01 Date: \_\_\_\_\_

Vessel: LC-50 LC-50 Hull: \_\_\_\_\_

Item: 512-01 Mod. \_\_\_\_\_

Spec. S/D 000-01

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # \_\_\_\_\_

- ☐ Required Report(s)
- ☒ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/ > 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

Enclosure(s):

## SCHEDULE OF EVENT REPORTS

1. PRODUCTION SCHEDULE
2. MANPOWER LOADING CURVE
3. SUBCONTRACTORS

SEP 32 2 52 PM '81  
 CONTRACTS

Comments:

**BAY CITY MARINE, INC.**

Signature: \_\_\_\_\_ Date: 10-2-81

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

b6  
b7C

## LETTER OF TRANSMITTAL

No. #2**BAY CITY MARINE, INC.**1411 Harding Avenue  
National City, CA 92050  
(714) 474-8121TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Attn: Code # \_\_\_\_\_

- ☐ Required Report(s)  
☒ Schedule of Events  
☐ Excess Material  
☐ Supships S/D 4500/2  
☐ Drawing(s)  
☐ Test Memo  
☐ J.O. Exception(s) Completed  
☐ \_\_\_\_\_

Contract: 116-81 Date: \_\_\_\_\_Vessel: LCM-8 - LCM-6 Hull: \_\_\_\_\_Item: 042-01 Mod. —Spec. S/D 68F-81

Reference:

Enclosure(s):

*SCHEDULE OF EVENT REPORTS*

- 1. PRODUCTION SCHEDULE*
- 2. MANPOWER LOADING CURVE*
- 3. SUBCONTRACTORS*

Comments:

**BAY CITY MARINE, INC.**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

SCHEDULE OF EVENT

SUBCONTRACTOR'S WORK ASSIGNMENTS

ITEM NO.	PARA.	SUBCONTRACTOR
33-41-002 Part I	3.3.1	S.D. Boat Movers
Part II	§.2 thru 3.4.4	Cleaning Dynamics
Part III	3.10 thru 3.12	Quality Sandblasting
Part IV	3.7	Quality Sandblasting
Part V	3.2 thru 3.3	Coastal Rigging
Part VI	3.3 thru 3.8	Cal-E-Wo
Part VII	3.4 thru 3.6	Code Welding
Part VIII	3.3 thru 3.19	Code Welding
Part IX	3.7	Cal-E-Wo & Code Welding
33-41-003 Part I	3.3.1	SWM's Crane Service
Part II	3.2 thru 3.4.4	Cleaning Dynamics
Part III	3.3 3.10 thru 3.12.2	SWM SWM
Part IV	3.9	SWM
"	3.15.1 thru 3.15.1.3	Coastal Rigging
Part V	3.2 thru 3.3.1 3.3	Coastal Rigging SWM (Crane & weights)
Part VI	3.2 thru 3.15	Cal-E-Wo
Part VII	3.6	Insulation Specialist
Part VIII	3.7 thru 3.12	National Pump & Injector

MARKS:



SCHEDULE OF EVENT

SUBCONTRACTOR'S WORK ASSIGNMENTS

ITEM NO.	PARA.	SUBCONTRACTOR
583-41-003 Part IX	3.5 3.7 thru 3.7.2	Cleaning Dynamics N.P.&I, Cal-E-Wo, A & E
583-41-004 Part I	3.3.1	SWM's Crane Service
Part II	3.2 thru 3.4.4	Cleaning Dynamics
Part III	3.3 and 3.10 thru 3.12.2	SWM
Part IV	3.9	SWM
Part V	3.2 thru 3.3.1 3.3	Coastal Rigging SWM (Crane & weights)
Part VI	3.2 thru 3.15	Cal-E-Wo
Part VII	3.6	Insulation Specialist
Part VIII	3.7 thru 3.12	National Pump & Injector
Part IX	3.5 3.7 thru 3.7.2	Cleaning Dynamics N.P. & I, Cal-E-Wo, A & E

REMARKS:

9-27 9-30 10-4 10-11 10-18 10-25 11-1 11-8 11-15

AWARDED  
CONTRACT

583-41-003  
PART VIII  
MECHANICAL

ORDER MATERIAL REMOVE ENGINES DISASSEMBLE REPAIR, INSPECT, TEST & REASSEMBLE BLOWERS, ROTOR, BLOCKS, COOLERS, PROPELLERS DYN0 TEST REASSEMBLE INSTALL FINAL TEST

583-41-003  
PART IX  
BAY TRIALS

PROVIDE DOCK FUEL TRIALS BAY TRIALS

9-27 9-30 N-4

AWARDED  
CONTRACT

583-41-004  
PART I  
DRY BERTHING

PRELIMINARY  
HULL INSPECTION

MAINTAIN DRY BERTHING

583-41-004  
PART II  
GAS FREE

REMOVE  
FUEL GAS FREE SUBMIT  
REPORT

MAINTAIN GAS FREE

583-41-004  
PART III  
PRESERVATION

REMOVE  
INTERFERENCE BLASTING HULL  
INSPECTION  
ACCESS  
CUTS

COMPLETE  
PAINTING

9-27 9-30 10-7 10-11 10-18 10-25 11-1 11-8 11-15

AWARDED  
CONTRACT

583-41-004  
PART IV  
REPAIRS

BLASTING

START HULL  
REPAIRS

COMPLETE  
REPAIRS

SHOP TEST RAMP WIRE

AIR TEST

583-41-004  
PART V  
LIFTING SLING

CLEAN  
SLING

SHOP  
TEST

BOAT  
WEIGHT  
TEST

583-41-004  
PART VI  
ELECTRICAL

REMOVE  
INTERFERENCE

SHOP TEST  
009-17

REPLACE  
CABLES

STEERING  
CONTROL

INSTALL  
SWITCHES

PRELIMINARY  
TEST

FINAL  
TEST

ORDER  
MATERIAL

REPAIRS

583-41-004  
PART VII  
PIPING

REMOVE  
INTERFERENCE

ACCOMPLISH  
REPAIRS

TEST  
SYSTEM

ORDER  
MATERIAL

MODIFY  
PIPING

OVERHAUL  
VALVES

HEEL  
COOLERS

FLUSH  
SYSTEM



9-27 9-30 10-7 10-11 10-18 10-25 11-1 11-8 11-15

AWARDED  
CONTRACT

583-41-004  
PART VIII  
MECHANICAL

ORDER MATERIAL      REMOVE ENGINES      DISASSEMBLE      REPAIR, INSPECT, TEST & REASSEMBLE  
BLOWERS, ROTOR, BLOCKS, COOLERS, PROPELLERS      DYNO TEST      REASSEMBLE      INSTALL      FINAL TEST

583-41-004  
PART IX  
BAY TRIALS

REMOVE DOCK FUEL TRIALS      BAY TRIALS

9-27

9-30

10-7

10-11

10-18

10-25

11-1

11-8

11-15

AWARDED  
CONTRACT

583-41-002  
PART V  
LIFTING SLINGS

REMOVE  
SLINGSSHOP  
TESTBOAT  
WEIGHT  
TEST

583-41-002  
PART VI  
ELECTRICAL

REMOVE  
INTERFERENCETEST TO  
009-17

REPAIRS

PRELIMINARY  
TESTFINAL  
TESTORDER  
MATERIALSEA  
TRIALS

583-41-002  
PART VII  
PIPING

REMOVE  
INTERFERENCEACCOMPLISH  
REPAIRSPRELIMINARY  
TESTFINAL  
TESTORDER  
MATERIAL

583-41-002  
PART VIII  
MECHANICAL

REMOVE  
INTERFERENCEREMOVE  
ENGINESSUBMIT  
REPORTDYNO  
TESTINSTALL  
ENGINESOPERATIONAL  
TESTORDER  
MATERIALBALANCE  
PROPELLERS

9-27

9-30

N-7

10-7

10-18

N-25

N-2

N-1

N-1

AWARDED  
CONTRACT

583-41-002

PART IX

BAY TRIALS

PROVIDE  
FUELDOCK  
TRIALSBAY  
TRIALSSUBMIT NAMES  
FOR BAY TRIALS

583-41-003

PART I

DRY BERTHING

PRELIMINARY  
HULL INSPECTION

MAINTAIN DRY BERTHING

583-41-003

PART II

GAS FREE

REMOVE  
FUEL

GAS FREE

SUBMIT  
REPORT

MAINTAIN GAS FREE

583-41-003

PART III

PRESERVATION

REMOVE  
INTERFERENCE

BLASTING

HULL  
INSP.COMPLETE  
PAINTINGACCESS  
CUTS

9-27 9-30 10-1 10-18 10-25 11-2 11-15 11-25

AWARDED  
CONTRACT

583-41-003  
PART IV  
REPAIRS

BLASTING  
START HULL  
REPAIRS  
SHIP TEST RAMP WIRE  
COMPLETE  
REPAIRS  
AIR TEST

583-41-003  
PART V  
LIFTING SLING

CLEAN  
SLING  
SHIP  
TEST  
BOAT  
WEIGHT  
TEST

583-41-003  
PART VI  
ELECTRICAL

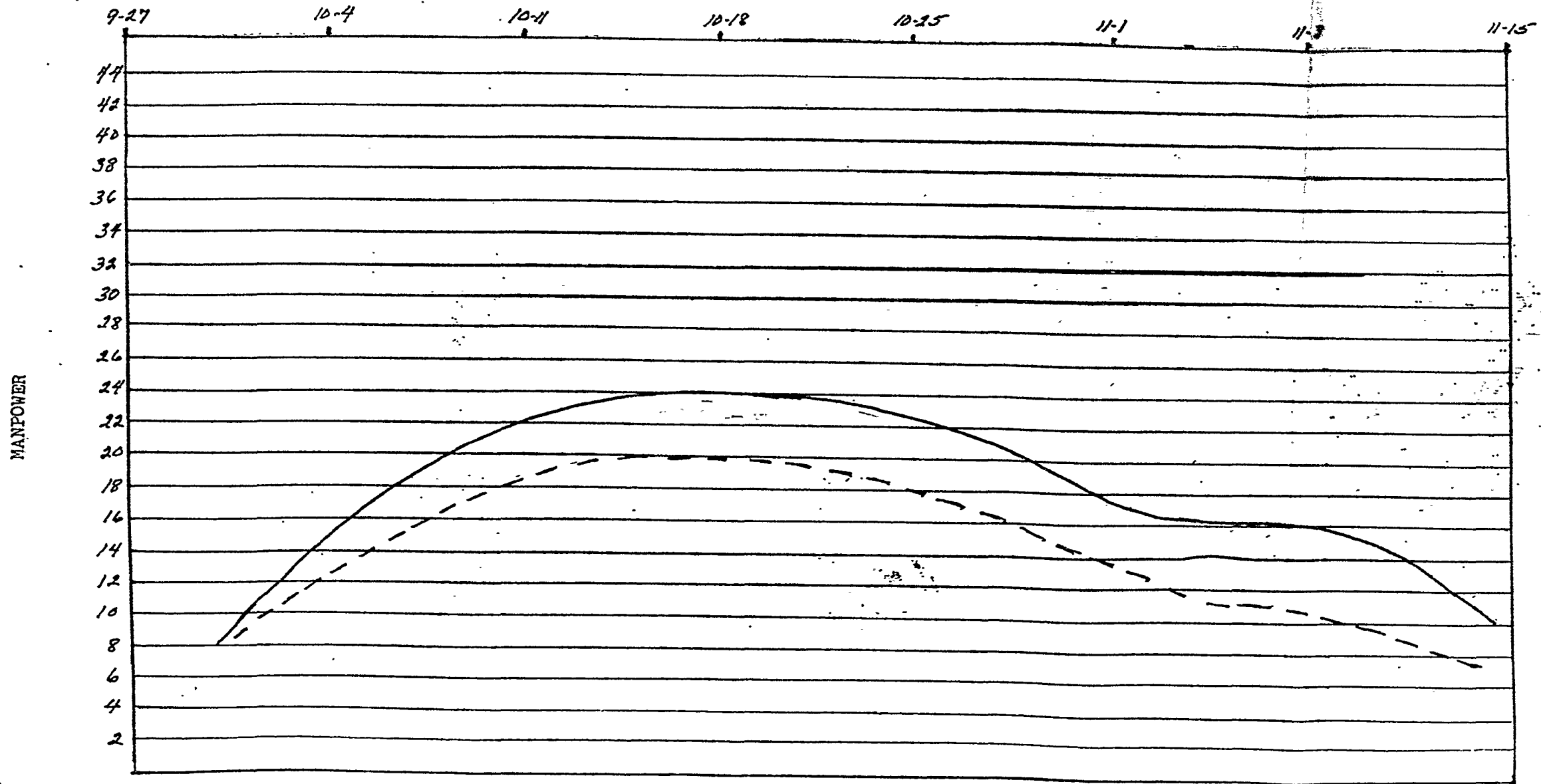
REMOVE  
INTERFERENCE  
ORDER  
MATERIAL  
SHIP TEST  
009-14  
REPAIRS  
REPLACE  
CABLES  
STEERING  
CONTROL  
INSTALL  
SWITCHES  
PRELIMINARY  
TEST  
FINAL  
TEST

583-41-003  
PART VII  
PIPING

REMOVE  
INTERFERENCE  
ORDER  
MATERIAL  
ACCOMPLISH  
REPAIRS  
MODIFY  
PIPING  
OVERHAUL  
VALVES  
KEEL  
COOLERS  
FLUSH  
SYSTEM  
TEST  
SYSTEM

SCHEDULE OF EVENTS

MANPOWER LOADING CURVE



9-27

9-30

10-4

10-11

10-18

10-25

11-1

11-8

AWARDED  
CONTRACT

583-41-002  
PART I  
DRY BERTHING

HULL  
INSPECTION

MAINTAIN DRY BERTHING

DELIVER  
CRAFTS

583-41-002  
PART II  
GAS FREE

GAS  
FREESUBMIT  
REPORT

MAINTAIN GAS FREE

583-41-002  
PART III  
PRESERVATION

REMOVE  
INTERFERENCE BLASTINGHULL  
INSPECTIONCOMPLETE  
PAINTING

583-41-002  
PART IV  
REPAIRS

RECORD  
MARKINGSREMOVE  
FUEL TANKSHULL  
REPAIRSCOMPLETE  
REPAIRS

## LETTER OF TRANSMITTAL

No. LOT 2 (R1)

FROM:

**BAY CITY MARINE, INC.**1411 Harding Avenue  
National City, CA 92050

Contract: 116-81 Date: 10-9-81

Vessel: USS DURHAM Hull: LCM-6

Item: 042-01 Mod. \_\_\_\_\_

Spec. S/D 688-81

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # 1509-1D b6  
b7C☒ Required Report(s)☒ Schedule of Events☐ Excess Material☐ Supships S/ > 4500/2☐ Drawing(s)☐ Test Memo☐ J.O. Exception(s) Completed☐ \_\_\_\_\_

Enclosure(s):

RESUBMITTED  
SCHEDULE OF EVENTS

1) PRODUCTION SCHEDULE

2) MANPOWER LOADING CURVE

3) SUBCONTRACTORS LIST

Comments:

BAY CITY MARINE, INC.

Signature: 

Date: 10-9-81

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# LETTER OF TRANSMITTAL

No. LOT 5

FROM: **BAY CITY MARINE, INC.**  
1411 Harding Avenue  
National City, CA 92050

Contract: 116-01 Date: 11-2-81

Vessel: LCM 8 & LC4-6 Hull: DURHAM

Item: ALL Mod. \_\_\_\_\_

Spec. S/D 603-01

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # 1509-10

- ☒ Required Report(s)
- ☐ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/ D 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

Enclosure(s):

1) PERSONNEL AUTHORIZED TO PERFORM INSPECT-  
IONS AND TEST.

Comments:

**BAY CITY MARINE, INC.**

Signature: FRANK HEDDY Date: 10-2-01

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





PERSONNEL AUTHORIZED TO PERFORM INSPECTIONS AND TESTS

ATTN:

CODE 1509 - 1 D DATE 10/2/81

The following personnel are authorized to perform inspections and tests on:

b6  
b7C

Contract: 116-81 Spec. No. S.D. 688-81 Vessel DURHAM <sup>LCM-6</sup>  
LCM-85

NAME

TEL. (WORK)

TEL. (HOME)

Authorized by

Date 10/2/81

1417 Harding Avenue • National City, CA 92050 • (714) 474-8121

## LETTER OF TRANSMITTAL

No. LOT 6

FROM:

**BAY CITY MARINE, INC.**1411 Harding Avenue  
National City, CA 92050Contract: 116-81 Date: 10-12-81Vessel: LCM-8 Hull: 74CM6765Item: 583-41-003 Mod. \_\_\_\_\_Spec. S/D 688-81

TO:

Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # 1509-1D b6  
b7c☒ Required Report(s)☐ Schedule of Events☐ Excess Material☐ Supships S/D 4500/2☐ Drawing(s)☐ Test Memo☐ J.O. Exception(s) Completed☐ \_\_\_\_\_

Enclosure(s):

- 1) REQUEST HULL INSPECTION PER PARA 3.16 OF  
ITEM 583-41-003: PT III OF IX.

Comments:

REQUEST FORMAL HULL INSPECTION 0900, 10-14-81

*RECEIVED & NOTED**INSPECTION ARRANGED FOR 1300 10-14-81*DATE 10/15/81  
DISTRIBUTIONOct 13 8 54 AM '81  
CONTRACTS OUT

MGR \_\_\_\_\_

PURCH \_\_\_\_\_

1 QA \_\_\_\_\_

2 PROD \_\_\_\_\_

GFM \_\_\_\_\_

1 M. FILE \_\_\_\_\_

SUB \_\_\_\_\_

SUB \_\_\_\_\_

SUB \_\_\_\_\_

*Lee*

Signed

BAY CITY

Signature Date: 10-12-81

Supships

Signature Date: 10/14/81

# LETTER OF TRANSMITTAL

No. LOT 6

FROM:

**BAY CITY MARINE, INC.**

1411 Harding Avenue  
National City, CA 92050

Contract: 116-81 Date: 10-12-81

Vessel: LCM-9 Hull: 74CM3765

Item: 583-41-003 Mod. \_\_\_\_\_

Spec. S/D 588-81

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # 1509-10

b6  
b7C

☒ Required Report(s)

☐ Schedule of Events

☐ Excess Material

☐ Supships S/ > 4500/2

☐ Drawing(s)

☐ Test Memo

☐ J.O. Exception(s) Completed

☐ \_\_\_\_\_

Enclosure(s):

1) REQUEST HULL INSPECTION PER PARA 3.16 OF  
ITEM 583-41-003: PT III OF IX.

OCT 13 8 54 AM '81  
CONTRACTS

Comments:

REQUEST FORMAL HULL INSPECTION 0900, 10-14-81

**BAY CITY MARINE, INC.**

Signature  Date: 10-12-81

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# LETTER OF TRANSMITTAL

No. LOT 6

FROM:

**BAY CITY MARINE, INC.**

1411 Harding Avenue  
National City, CA 92050  
(714) 474-8121

Contract: 116-81 Date: 10-

Vessel: LCM-8 Hull: 74CM 6765

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Item: 583-41-003 Mod. \_\_\_\_\_

Spec. S/D 688-81

Reference:

b6  
b7C

Attn: Code # 1509.1D

☒ Required Report(s)

☐ Schedule of Events

☐ Excess Material

☐ Supships S/D 4500/2

☐ Drawing(s)

☐ Test Memo

☐ J.O. Exception(s) Completed

☐ \_\_\_\_\_

Enclosure(s):

(1) REQUEST ~~FOR~~ HULL INSPECTION  
PER ~~PARA 3.16~~ 3.16 OF ITEM  
583-41-003; PT III OF IX.

Comments:

REQUEST FORMAL HULL INSPECTION 0900 10-14-81  
~~PER~~

BAY CITY MARINE, INC.

Signature:  Date: 10-

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# LETTER OF TRANSMITTAL

No. 1000-10

FROM:

**BAY CITY MARINE, INC.**

1411 Harding Avenue  
National City, CA 92050

Contract: 502-01

Date: 10-14-01

Vessel: 1000-10

Hull: 1000-10

Item: 502-01-002

Mod.

Spec. S/D: 502-01

TO:

Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code #

1000-10

☒ Required Report(s)

☐ Schedule of Events

☐ Excess Material

☐ Supships S/ 4500/2

☐ Drawing(s)

☐ Test Memo

☐ J.O. Exception(s) Completed

☐ \_\_\_\_\_

Enclosure(s):

1) REQUEST HULL INSPECTION PER PARA 3.16 OF  
ITEM 502-01-002; PT III OF IX.

Comments:

REQUEST FORMAL HULL INSPECTION 0200, 10-14-01

**BAY CITY MARINE, INC.**

Signature

Date:

10-14-01

Supships

Signature:

Date:

b6  
b7C

# LETTER OF TRANSMITTAL

No. LOT B

FROM:

**BAY CITY MARINE, INC.**

1411 Harding Avenue  
National City, CA 92050

Contract: 116-81

Date: 10-12-81

Vessel: LCM-8

Hull: 4765 & 783

Item: a. 563-41-003 PT VIII  
b. 563-41-004 PT VIII

Mod. \_\_\_\_\_

Spec. S/D 699-81

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # 1509-17

☒ Required Report(s)

☐ Schedule of Events

☐ Excess Material

☐ Supships S/ > 4500/2

☐ Drawing(s)

☐ Test Memo

☐ J.O. Exception(s) Completed

☒ PROCESS CONTROL PROCEDURE

Enclosure(s):

1. PROCESS CONTROL PROCEDURE  
FLUSHING OF HYDRAULIC STEERING  
SYSTEM

Comments:

BAY C

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

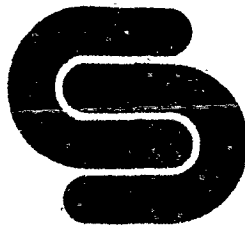
10-12-81

Supships

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

b6  
b7C



**CLEANING  
DYNAMICS  
CORPORATION**

To: Supervisor of Shipbuilding,  
Conversion and Repair, USN  
Naval Station, Box 119  
San Diego, CA 92136

3.1.1 Via: Bay City Marine  
1411 Harding  
National City, CA 92050

3.1.2 Date Developed: 10-12-81 Item #583-41-003 & 583-41-004 PT VIII OF IX

3.1.2 Process Number: 150-81 CDC.W.O.# 2198-7 & 2198-11

3.1.2 Process Control Procedure for Flushing the Steering Hydraulic System  
of the LCM-8 #74CM6765 & #74CM6783

3.1.2 References Utilized: PSNSY Process Instruction #0516-905-0411, Ch. 2,  
Appendix 4, Process Control Procedure

3.1.3 Equipment Utilized:

A. Shipboard

1. 1 air operated, rotary pump, MFG. by Ryan Co. for particle flush
2. 1-1½ stainless steel, double teflon diaphragm, water actuated  
air operated freon pump MFG. by Gordon Rupp Co.
3. 1 stainless steel, 2 micron filter
4. 1 stainless steel (20 gallon capacity) portable sump tank
5. sufficient freon and oil resistant hoses to accomodate flush  
and circulate hook ups.

B. Yardside

1. Sufficient amount of PCA freon MIL-C-81302 or equivalent for  
systems piping flush.
2. 1 stainless steel, teflon double diaphragm, water actuated,  
air operated, transfer pump MFG. by Gordon Rupp Co.
3. Sufficient quantities of teflon hose or equivalent used to  
transfer cleaning solvent and hydraulic oil into ship piping.
4. Sufficient quantities of hydraulic oil for flushing and filling  
system.

## 3.1.3 PROCESS DESCRIPTION:

In order to flush the hydraulic system all the jumpers will have to be removed. These jumpers are to be removed by the Prime Contractor to provide fittings and flanges to accomodate flushing jumpers. Freon and oil resistant flush hoses will be attached at the flanged ends in order to give a complete flow of both freon and hydraulic oil through out the entire steering pipe hydraulic system. All flex hoses will be returned and shop cleaned by Cleaning Dynamics Corporation.

## SCOPE:

The flushing shall be conducted in two (2) steps:

- (1) For piping and sump on the ship.
- (2) For all hydraulic hose removed for shop clean.

## STEP #1

The first part of the flush will incorporate the shipboard piping. The 1½" piping from the Engine Room into the Lazarette to the Steering Room, and return line piping back to the forward sump tank. Chemical resistant jumpers shall be installed at pipe ends connecting the flushing equipment, to the piping and jumping the piping where components and hoses have been removed, to form a continuous flushing path from flushing pump and returning to same. The flushing solvent may be displaced and discarded if the return solvent is heavily contaminated until a clean return is obtained and then connected up to the recirculation flushing equipment. Start the flush until the return solvent is clean. Take a sample and have analyzed by a certified Marine Chemist, to meet Class 8 of PSNSY Process Instructions #0516-905-0411 Chapter I, Appendix 4. When piping is clean, empty system of freon solvent, blow piping dry with certified nitrogen and test for halogenated solvent with a G.E. H-10 Halide Tester. When piping is dry, pump clean syste oil and coat the piping. Empty system, remove flushing equipment cover ends with viscaine and tape to seal ends in preparation of system being put back together and made ready for operational.

## STEP #2

Hydraulic Flex hoses removed from the piping system shall be taken to Cleaning Dynamics Corporation's yard for shop clean to a grade "A" visual cleanliness criteria as called out in PSNSY Process Control Procedure 0516-905-411 Chapter I for shop cleaning paragraph 2.1 page 3.

Upon delivery to Cleaning Dynamics Corporation's yard, Flex hoses shall be steam cleaned to remove oils and contaminates. Hoses shall be blown dry with certified nitrogen, inspected and ends sealed with viscaine and tape for delivery to the ship awaiting installation back into the system.

**\*\*NOTE:** CAUTION SHOULD BE USED IN TRANSPORTING THE HOSES TO INSURE THE ENDS DO NOT BECOME UNWRAPPED OR BROKEN. ANY HOSE ENDS FOUND OPEN, UPON ARRIVAL AT SHIP, WILL BE RETURNED FOR RE-CLEAN AT CLEANING DYNAMICS CORPORATION'S YARD.



The sump shall be opened and hand wiped with lint free wipes, and inspected. Prime Contractor to reinstall hoses, filters, components to make system operational. System shall then be filled with clean, new hydraulic oil conforming to Navy Sym. 2135 and operated. After one hour a sample shall be taken to a laboratory for analysis for Class 9 PSNSY Process Instruction #0516-905-0411 Chapter 2, Appendix

**\*\*NOTE:** DUE TO FLASH RUSTING OF SUMP WHEN CLEANING WITH FREON, LINT FREE WIPES SHALL BE TULIZED AND VISUALLY INSPECTED. FLOW RATES OF PUMPS ARE FROM 10-60 GALLONS PER MINUTE. ½" PIPING IS RATED AT 10 G.P.M.

#### 3.1.4 QUALIFICATION REQUIREMENTS:

The Chemical Crew utilized in accomplishing this assigned job are superior in knowledge and in their field of work. They have all had a minimum of one year of training and experience but combined have an average of five years experience in the field of chemical work including High Criteria Cleaning.

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The above are required to have direct knowledge of jobs assigned, including the following:

Complete understanding of the operation of the system for systems being worked.

Complete understanding of the scope of the job.

Quality Assurance Requirements

Ability to foresee and resolve potential problem areas.

Ability to utilize knowledge and experience to complete the job in a timely yet efficient manner.

#### 3.1.5 INSPECTION AND DOCUMENTATION FORMS:

The inspection and documentation forms are those of the Prime Contractor in addition to Cleaning Dynamics Corporation's final job sign-offs for inspection of muslin bags.

#### 3.1.6 ACCEPTANCE AND REJECTION CRITERIA:

Acceptance and rejection criteria shall be based upon PSNSY Process Instructions 0516-905-0411 Chapter 2, Appendix 4 paragraphs 4.1.2 and 5.1.2 and Process Control Procedure.

## 3.1.7 METHOD UTILIZED TO ENSURE PERSONNEL HAVE COMPLETE KNOWLEDGE OF JOB:

Prior to commencement of this cleaning procedure, all personnel involved will attend several briefings, outlining the work requirements. A copy of the procedure, specification and references shall be in possession of the Coordinator, Foreman, and Leadman during the performance of the work.

## 3.1.8 THE METHOD UTILIZED TO CONTROL THE PROCEDURE:

The procedure will be the final job sign-offs which follows the cleaning process.

## 3.1.9 Sub Contractor Approval

BCM's Representative

Supships Representative

Name	Date	Title
[Redacted]		

Name

Date

Title

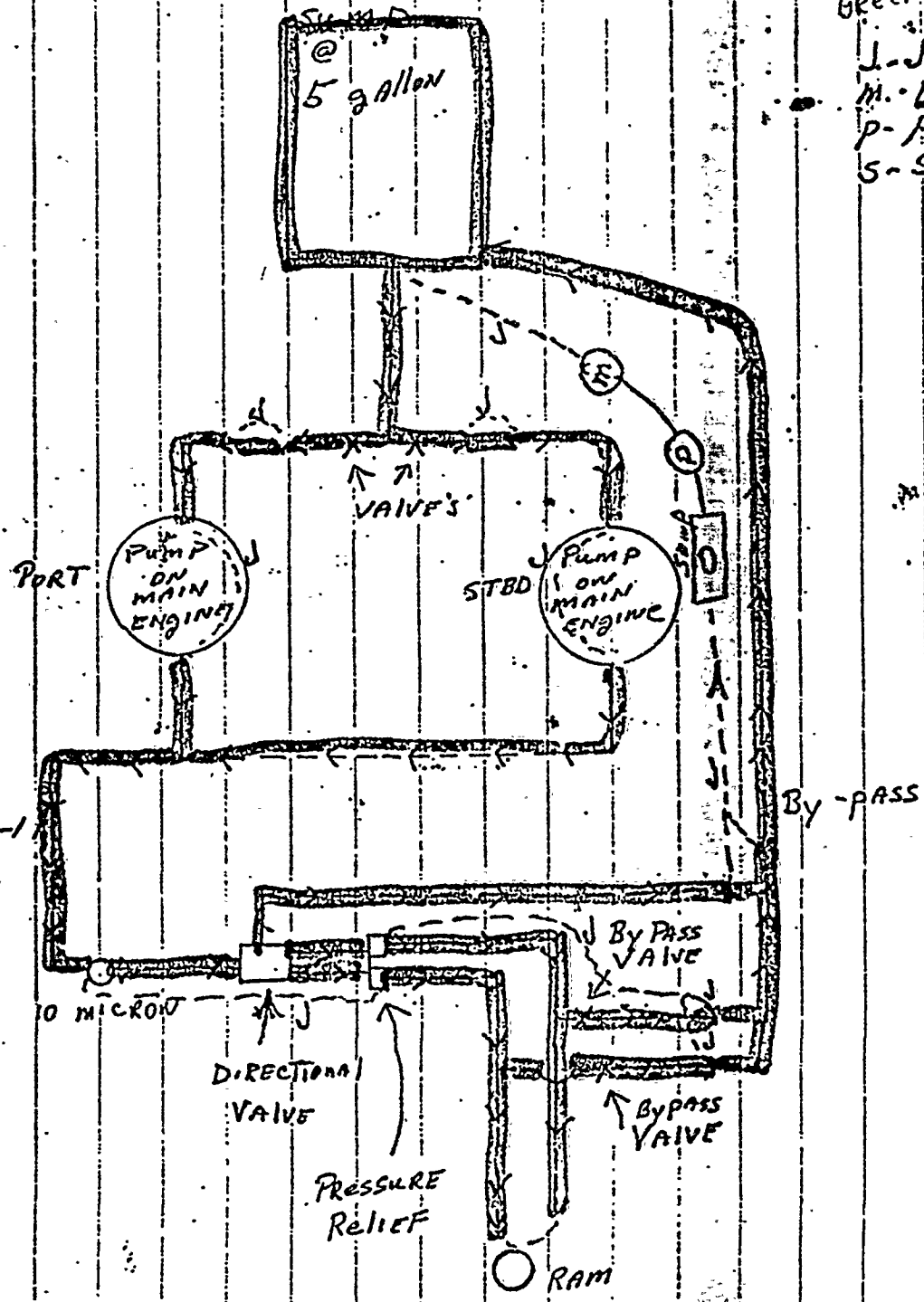
b6  
b7C

[Redacted]
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Cleaning Dynamics Corporation

JW/jk

RED - STEEL PIPING  
 GREEN - RUBBER HOSE (COMPONENTS)  
 J - Jumper  
 M - micron filter  
 P - pump  
 S - Samp



STEERING Hydraulic  
 WO# 2198-7-2198-11  
 Item # 583-41-003  
 583-41-004

## LETTER OF TRANSMITTAL

No. LOT 10

FROM:

**BAY CITY MARINE, INC.**1411 Harding Avenue  
National City, CA 92050Contract: 116-81Date: 10-15-01Vessel: LCM-8Hull: 48765Item: 688-41-001

Mod. \_\_\_\_\_

Spec. S/D 688-81TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # 1500-10

- ☒ Required Report(s)  
☐ Schedule of Events  
☐ Excess Material  
☐ Supships S/ J 4500/2  
☐ Drawing(s)  
☐ Test Memo  
☐ J.O. Exception(s) Completed  
☐ \_\_\_\_\_

Enclosure(s):

**AS FOUND REPORT**

Comments:

BAY CITY MARINE, INC.

Signature \_\_\_\_\_

Date: \_\_\_\_\_

10-15-01

Supships

Signature \_\_\_\_\_

Date: \_\_\_\_\_

b6  
b7C

**NATIONAL PUMP & INJECTOR SALES & SERVICE, INC.****2307 East Belt Street****San Diego, California 92113****Phone: Area Code 714, 232-0831**

October 14, 1981

Bay City Marine  
1411 Harding Avenue  
National City, Calif 92050

Subject : U.S.S. Durham LKA-114  
BCM 116-81. Spec #SD688-8  
Item #583-41-003, LCM 8  
2 each 12V71 G.M. Diesel  
Engines S/N 12VA5212795  
S/N 12VA52793

Gentlemen:

The following conditions were noted and recorded during the dis-assembly, cleaning and inspecting of subject engine.

Engine S/N 12VA5212795

Cylinder block is cracked. (See NDT Report). (1) each connecting rod bent. End plate on expansion tank eroded. Fuel lines damaged. Blower coupling assembly damaged. Crankshaft is worn beyond manufacture wear limits. Cam rollers worn and scored.

Transmission & P.T.O.

Forward clutch plates worn and scored. Bearings show heat discolorat. Forward clutch springs broken.

Missing Parts Report

Generator, hydraulic pump (RPA).

Engine S/N 12VA52793

Cylinder block cracked (See NDT Report). Cam rollers worn and scored. Rocker arm shafts worn and scored. Rocker arms worn through hardened surface. Both valve covers damaged.

Continue

Transmission & P.T.O.

Forward reverse clutch plates worn and scored. Bearings worn and scored. Forward clutch springs broken.

Missing Parts Reports

Generator, hydraulic pump (RPA).

Recommend the following list of material be repaired and or replaced

Engine S/N 12VA5212795

1	5135756	CONNECTING ROD
1	5123741	END PLATE EXPANSION TANK
1	5150344	BLOWER COUPLING

Transmission

1	MA648	BALL BEARING
1	MA647	ROLLER BEARING
2	M2175B	BALL BEARING
2	M2104	BALL BEARING
2	MA649	BALL BEARING
1	M2475A	ROLLER BEARING
2	MA293	ROLLER BEARING
1	M2167	BALL BEARING

Engine S/N 12VA52793

1	VALVE COVER
2	VALVE COVER INST KIT

Bay City Marine

Page #3

Continue

Transmission

1	MA648	BALL BEARING
1	MA647	BALL, ROLLER
2	M2175B	BALL BEARING
2	M2104	BALL BEARING
2	MA649	BALL BEARING
1	M2475A	BALL BEARING
2	MA293	BALL BEARING
1	M2167	BALL BEARING

Very truly yours,



b6  
b7C

RJC/ec

**NATIONAL PUMP & INJECTOR SALES & SERVICE, INC.**

2307 East Belt Street San Diego, California 92113

Phone: Area Code 714, 232-0831

October 15, 1981

Bay City Marine  
1411 Harding Avenue  
National City, Ca 92050

Subject: U.S.S. Durham LKA-114  
BCM 116-81 , Spec #SD688-81  
Item #583-41-004  
(2) each V-12-71 Diesel Engine

Gentlemen:

Subject blocks were reported as cracked as per NDT Report. Blocks were inspected by [redacted] as requested by SupShips San Diego, Ca and were reported as not revealing indications. Both cylinder blocks are satisfactory for reuse.

b6  
b7C

Very truly yours,

[redacted]

RJC/ec



**Phone: 263-3135**

X-RAY  
MAQ. PARTICLE  
PENETRANTS

## TESTING INC.

**4582 FEDERAL BLVD. SAN DIEGO, CA. 92102**

SHIP

BAY CITY MARINE

TO: REF: National Pump & Injector, Inc.  
2307 East Belt Street  
San Diego, California 92113

Lab. No: F-154 Invoice: \_\_\_\_\_  
Date: 10-12-81 Cust. P.O. 58596  
Part No: W/O #15628-4  
Part Name: ENGINE PARTS  
Quantity: (4) EACH Art. # BCM-116-81  
Material: ~~XXXXXX~~ Heat No: \_\_\_\_\_  
Spec. No: SD 688-81 Item No: 583-41-004 Part #8  
Contract No: \_\_\_\_\_  
Location: USS DURHAM LKA-114

RADIOGRAPHIC INSPECTION ☐

Standard: \_\_\_\_\_

Acceptance: \_\_\_\_\_

Percent Tested: \_\_\_\_\_

LIQUID PENETRANT INSPECTION ☐

Prep. of Surface: \_\_\_\_\_

Penetrant Group No: \_\_\_\_\_

Brand: \_\_\_\_\_ Dwell Time: \_\_\_\_\_

Remover Type: \_\_\_\_\_

Developer Type:\_\_\_\_\_Time:\_\_\_\_\_

**Standard:** \_\_\_\_\_

Acceptance: \_\_\_\_\_

Percent Tested: \_\_\_\_\_

**MAGNETIC PARTICLE INSPECTION** ☒

Prep. of Surface: WASH & PICK LIGHT

Equipment Used: \_\_\_\_\_ Wet: X Dry: X

Magnetization Type: INDIRECT

Direction: LONG. Current: AC

Type of Particles: FLUORESCENT & RED POWDER

Standard: MIL-STD-271-E

Acceptance: NavShips 0900-003-8000 C1-1

Percent Tested: 100%

### TECHNIQUE SKETCH

**INVOICE**

DESCRIPTION	UNIT	TOTAL
<b>FILM USAGE</b>		
5 x 7 _____		
4 1/2 x 10 _____		
8 x 10 _____		
10 x 12 _____		
11 x 14 _____		
13 x 17 _____		
14 x 17 _____		

## FILM USAGE

5 x 7 \_\_\_\_\_

43 x 10 \_\_\_\_\_

 $8 \times 10$  \_\_\_\_\_

12\_\_\_\_\_

11 x 14 \_\_\_\_\_

13 x 17 \_\_\_\_\_

14 x 17.

Quan. Accept:      RT      PT      MT <sup>-2-</sup>

b6  
b7C

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CYLINDER BLOCK BORES S/N 12VA5212795 (RIGHT BANK)

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD-688-81

ARTICLE NO: 583-41-003 PARA NO: 3.7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE  
MFG. WEAR LIMITS

CONTRACTOR QC INSP. SUPSHIPS REP. b6 b7C

MEASURING INSTRUMENT USED BORE GAUGES CONTROL NO. DBG-1 DATE LAST CALIBRATED 8-24-81

READINGS AS FOUND

CALIBRATION MARKED (YES ) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1 CYLINDER	4.6265 4.6275	.001	T. 4.6273 M. 4.6273 B. 4.6270	XX XX XX		
#2 CYLINDER	4.6265 4.6275	.001	T. 4.6273 M. 4.6274 B. 4.6269	XX XX XX		
#3 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6273 B. 4.6268	XX XX XX		
#4 CYLINDER	4.6265 4.6275	.001	T. 4.6271 M. 4.6271 B. 4.6265	XX XX XX		
#5 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6272 B. 4.6271	XX XX XX		
#6 CYLINDER	4.6265 4.6275	.001	T. 4.6275 M. 4.6274 B. 4.6270	XX XX XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING: CONVERSION AND REPAIR, USN 11ND  
 DIMENSIONAL INSPECTION REPORT

S/N 12VA5212795 (LEFT BANK)

SUBJECT: CYLINDER BLOCK BORES

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114

CONTRACT NO: BCM 116-81

SPEC NO: SD-688-81

ARTICLE NO: 583-41-003

3.7.10.49

PARA NO:

IDR NO:

PII NO:

SHIP AND/OR PLAN AND/OR SKETCH REFERENCE

MFG WEAR LIMITS

CONTRACTOR QC INSP

SUPSHIPS REP.

b6  
b7C

MEASURING INSTRUMENT USED BORE GAUGES

CONTROL NO. DBG-1

DATE LAST  
CALIBRATED 8/24/81

READINGS AS FOUND

CALIBRATION MARKED (YES) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6270 B. 4.6267	XX XX XX		
#2 CYLINDER	4.6265 4.6275	.001	T. 4.6273 M. 4.6274 B. 4.6271	XX XX XX		
#3 CYLINDER	4.6265 4.6275	.001	T. 4.6273 M. 4.6272 B. 4.6266	XX XX XX		
#4 CYLINDER	4.6265 4.6275	.001	T. 4.6273 M. 4.6268 B. 4.6266	XX XX XX		
#5 CYLINDER	4.6265 4.6275	.001	T. 4.6271 M. 4.6270 B. 4.6266	XX XX XX		
#6 CYLINDER	4.6265 4.6275	.001	T. 4.6275 M. 4.6272 B. 4.6265	XX XX XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CRANKSHAFT MAIN BEARING JOURNALS S/N 12VA5212795

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD 688-81

ARTICLE NO: 583-41-003 PARA. NO: 3.7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE

MFG. WEAR LIMITS

CONTRACTOR QC INSP.  SUPSHIPS REP. b6  
b7C  
MEASURING INSTRUMENT USED MICROMETER 4-5" CONTROL NO. M1-5 DATE LAST CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1	4.499 4.500	.001	4.498		XX	
#2	4.499 4.500	.001	4.497		XX	
#3	4.499 4.500	.001	4.4985		XX	
#4	4.499 4.500	.001	4.4975		XX	
#5	4.499 4.500	.001	4.4985		XX	
#6	4.499 4.500	.001	4.4975		XX	
	4.499 4.500	.001	4.499	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CONNECTING ROD JOURNALS CRANKSHAFT S/N 12VA5212795

CONTRACTOR: BAT CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD-688-81

ARTICLE NO: 583-41-003 PARA NO: 3.7.10.49 IDR NO:          PM NO:         

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE:           
MFG. WEAR LIMITS         

CONTRACTOR QC INSP.          SUPSHIPS REP.          b6  
b7c

MEASURING INSTRUMENT USED 2-3" mic CONTROL NO. 21 DATE LAST CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED ( YES ) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1	2.999 3.000	.001	2.999	XX		
#2	2.999 3.000	.001	2.999	XX		
#3	2.999 3.000	.001	2.999	XX		
#4	2.999 3.000	.001	2.999	XX		
#5	2.999 3.000	.001	2.999	XX		
#6	2.999 3.000	.001	2.999	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CAMSHAFT JOURNALS (RIGHT) S/N 12VA5212795

CONTRACTOR: BAT CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD-688-81

ARTICLE NO: 583-41-003 PARA NO: 3.7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE  
MFG. WEAR LIMITS

CONTRACTOR QC INSP

SUPSHIPS REP.

b6

b7C

MEASURING INSTRUMENT USED 1-2" mic

CONTROL NO. M1-22

DATE LAST CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED (YES) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
FRONT END CAM JOURNAL	1.4970 1.4975	.0005	1.4960		XX	
INTERMEDIATE #1	1.4980 1.4985	.0005	1.4975		XX	
#2	1.4980 1.4985	.0005	1.4980	XX		
#3	1.4980 1.4985	.0005	1.4980	XX		
#4	1.4980 1.4985	.0005	1.4975		XX	
#5	1.4980 1.4985	.0005	1.4975		XX	
REAR END CAM JOURNAL	1.4970 1.4975	.0005	1.4965		XX	

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CAMSHAFT JORNALS S/N 12VA5212795 (LEFT)

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD-688-81

ARTICLE NO: 583-41-003 PARA NO: 3.7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE  
MFG WEAR LIMITS

CONTRACTOR QC INSP.  SUPSHIPS REP.  
MEASURING INSTRUMENT USED 1-2" mic CONTROL NO. M1-22 DATE LAST CALIBRATED 9/10/81

READINGS AS FOUND				CALIBRATION MARKED		YES	NO
PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT		
FRONT END CAM JOURNAL	1.4970 1.4975	.0005	1.497	XX			
INTERMEDIATE #1	1.4980 1.4985	.0005	1.498	XX			
#2	1.4980 1.4985	.0005	1.498	XX			
#3	1.4980 1.4985	.0005	1.498	XX			
#4	1.4980 1.4985	.0005	1.498	XX			
#5	1.4980 1.4985	.0005	1.497		XX		
REAR END CAM JOURNAL	1.4970 1.4975	.0005	1.497	XX			

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

PROJECT: GEAR TRAIN BACK LASHES S/N 12VA5212795  
 CONTRACTOR: BAY CITY MARINE  
 REP: USS DURHAM LKA-114 CONTRACT NO. BCM 116 - 81 SPEC NO: SD 688-81  
 ARTICLE NO: 583-41-003 PARA. NO: 3.7.10.49 IDR NO: \_\_\_\_\_ PH NO: \_\_\_\_\_  
 VESSEL AND/OR PLAN AND/OR SKETCH REFERENCE \_\_\_\_\_  
 MFG. WEAR LIMITS \_\_\_\_\_

CONTRACTOR QC INSP. [REDACTED] SUPSHIPS REP. \_\_\_\_\_ b6  
 MEASURING INSTRUMENT USED DIAL IND. CONTROL NO. D1-3 DATE LAST CALIBRATED 9/10/81 b7C

READINGS AS FOUND

CALIBRATION MARKED ( YES ) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
CAM TO CAM GEAR	.003 .008	.005	.005	XX		
RC CAM TO IDLER GEAR	.003 .008	.005	.004	XX		
IDLER TO CRANK-SHAFT GEAR	.003 .008	.005	.004	XX		
BLOWER DRIVE GEAR	.003 .008	.005	.006	XX		



**SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT**

**SUBJECT:** END THRUST, CRANKSHAFT, CAMSHAFT, S/N 12VA5212795  
BAY CITY MARINE

**TRACTOR:** \_\_\_\_\_

**SHIP:** USS DURHAM LKA-114 **CONTRACT NO:** BCM 116-81 **SPEC NO:** SD-688-81

**PIECE NO:** 583-41-003 **PARA. NO.** 3.7.10.49 **IDR NO.** \_\_\_\_\_ **PM NO.** \_\_\_\_\_

**SHIP AND/OR PLAN AND/OR SKETCH REFERENCE** \_\_\_\_\_

MFG. WEAR LIMITS

**TRACTOR QC INSP** \_\_\_\_\_ **SUPSHIPS REP.** \_\_\_\_\_ b6  
b7C

**MEASURING INSTRUMENT USED** DIAL IND. **CONTROL NO.** D1-3 **DATE LAST CALIBRATED** 9/10/81

READINGS AS FOUND

--- CALIBRATION MARKED ( YES ) NO

PART OR G NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
CRANK- ● FT	.004 .011	.007	.017		XX	
CAM- (R) SHAFT	.004 .012	.008	.010	XX		
CAM (L) SHAFT	.004 .012	.008	.008	XX		

**SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND**  
**DIMENSIONAL INSPECTION REPORT**

**SUBJECT:** BLOWER CLEARANCE S/N 12VA-5212795 (REAR)

CONTRACTOR: BAT CITY MARINE

**SHIP:** USS DURHAM (LKA-114)      **CONTRACT NO:** BCM-116-81      **SPEC NO:** SD-688-81

ARTICLE NO: 583-41-003      PARA NO: 3.7.10.49      IDR NO:      FM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE:

### MFG. WEAR LIMITS

b6  
b7C

**CONTRACTOR QC INSP**

**SUPSHIPS REP.**

MEASURING INSTRUMENT USED DIAL IND.

**CONTROL NO.** -- D1-3

DATE LAST  
CALIBRATED 9/10/85

READING AS FOUND

CALIBRATION MARKED ( YES ) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
ROTOR TRAILING EDGE	MIN. .002 MAX. .006	.004	.006	XX		
ROTOR LEADING EDGE	MIN. .016 MAX. .022	.006	.008		XX	
ROTOR TO FRONT END PLATE	MIN. .007 MAX. .009	.002	.008	XX	..	
ROTOR TO REAR END PLATE	MIN. .007 MAX. .009	.002	.015		XX	
ROTOR TO HOUSING INLET SIDE	MIN. .017 MAX. .019	.002	.012		XX	
ROTOR TO HOUSING OUTLET	MIN. .005 MAX. .007	.002	.006	XX	..	
TIMING GEAR BACKLASH	MIN. .0005 MAX. .004	.0035	.0015	XX		

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: BLOWER CLEARANCE S/N 12VA5212795 (FRONT)

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA 114 CONTRACT NO: BCM - 116 81 SPEC NO: SD-688-81

ARTICLE NO: 583-41-003 PARA NO: 3.7.10.49 IDR NO: PM NO:

SHIP AND/OR PLAN AND/OR SKETCH REFERENCE:  
MFG WEAR LIMITS

CONTRACTOR QC INSP

SUPSHIPS REP.

b6  
b7C

MEASURING INSTRUMENT USED DIAL IND CONTROL NO. DL-3

DATE LAST  
CALIBRATED 9/10/81

FEELER GAUGE

READINGS AS-FOUND

CALIBRATION MARKED (YES) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
ROTOR TRAILING EDGE	MIN. .002 MAX. .006	.004	.006	XX		
ROTOR LEADING EDGE	MIN. .016 MAX. .022	.006	.010		XX	
ROTOR TO FRONT END PLATE	MIN. .007 MAX. .009	.002	.008	XX		
ROTOR TO REAR END PLATE	MIN. .007 MAX. .009	.002	.015		XX	
ROTOR TO HOUSING INLET SIDE	MIN. .017 MAX. .019	.002	.014		XX	
ROTOR TO HOUSING OUTLET	MIN. .005 MAX. .007	.002	.007	XX		
TIMING GEAR BACKLASH	MIN. .0005 MAX. .004	.0035	.0025	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN LIND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CYLINDER BLOCK BORES (RIGHT BANK) S/N 12VA52793

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114

CONTRACT NO: BCM 116-81

SPEC NO: SD-688-81

ARTICLE NO: 583-41-003 PARA NO: 3.7.10.49

IDR NO:

PII NO:

SHIP AND/OR PLAN AND/OR SKETCH REFERENCE

MFG WEAR LIMITS

CONTRACTOR QC INS

SUPSHIPS REP.

b6  
b7C

MEASURING INSTRUMENT USED BORE GAUGES

CONTROL NO. DBG-1

DATE LAST  
CALIBRATED 8/24/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
01 CYLINDER	4.6265 4.6275	.001	T. 4.6269 M. 4.6267 B. 4.6264	XX XX XX		
02 CYLINDER	4.6265 4.6275	.001	T. 4.6270 M. 4.6268 B. 4.6266	XX XX XX		
03 CYLINDER	4.6265 4.6275	.001	T. 4.6270 M. 4.6271 B. 4.6267	XX XX XX		
04 CYLINDER	4.6265 4.6275	.001	T. 4.6270 M. 4.6269 B. 4.6266	XX XX XX		
05 CYLINDER	4.6265 4.6275	.001	T. 4.6269 M. 4.6269 B. 4.6266	XX XX XX		
06 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6272 B. 4.6269	XX XX XX		

REPORT NO. 200

**SUPERVISOR OF SHIPBUILDING; CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT**

**SUBJECT:** CYLINDER BLOCK BORES (LEFT BANK) S/N 12VA52793

**CONTRACTOR:** BAY CITY MARINE

**SHIP:** USS DURHAM LKA-114 **CONTRACT NO:** BCM 116-81 **SPEC NO:** SD 688-81

**ARTICLE NO:** 583-41-003 **PARA NO:** 3.7.10.49 **IDR NO:** **PII NO:**

**NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE**

MFG WEAR LIMITS

**CONTRACTOR QC INSP**

**SUPSHIPS REP.**

b6  
b7C

**MEASURING INSTRUMENT USED** BORE GAUGES

**CONTROL NO.** DBG-1

**DATE LAST CALIBRATED** 8/24/81

READINGS AS FOUND

**CALIBRATION MARKED** YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
01 CYLINDER	4.6265 4.6275	.001	T. 4.6271 M. 4.6268 B. 4.6267	XX XX XX		
02 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6271 B. 4.6269	XX XX XX		
03 CYLINDER	4.6265 4.6275	.001	T. 4.6272 M. 4.6268 B. 4.6265	XX XX XX		
04 CYLINDER	4.6265 4.6275	.001	T. 4.6269 M. 4.6269 B. 4.6265	XX XX XX		
05 CYLINDER	4.6265 4.6275	.001	T. 4.6270 M. 4.6269 B. 4.6269	XX XX XX		
06 CYLINDER	4.6265 4.6275	.001	T. 4.6272 M. 4.6267 B. 4.6265	XX XX XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CRANKSHAFT MAIN BEARING JOURNALS S/N 12VA 52793

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD688-81

ARTICLE NO: 583-41-003 PARA. NO: 3.7.10.49 IDR NO: \_\_\_\_\_ PM NO: \_\_\_\_\_

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE \_\_\_\_\_

MFG WEAR LIMITS

CONTRACTOR QC INS

SUPSHIPS REP. \_\_\_\_\_

b6  
b7C

MEASURING INSTRUMENT USED 4-5" MIC

CONTROL NO. M 1-5

DATE LAST  
CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR C NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1	3.499 3.500	.001	4.500	XX		
#2	3.499 3.500	.001	4.500	XX		
#3	3.499 3.500	.001	4.500	XX		
#4	3.499 3.500	.001	4.4990	XX		
#5	3.499 3.500	.001	4.4990	XX		
#6	3.499 3.500	.001	4.500	XX		
#7	3.499 3.500	.001	4.4990	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CRANKSHAFT CONNECTING ROD JOURNALS S/N 12VA52793

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD-688-81

ARTICLE NO: 583-41-003 PARA NO: 3/7/10/49 IDR NO: \_\_\_\_\_ PM NO: \_\_\_\_\_

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE: \_\_\_\_\_

MFR WEAR LIMITS

CONTRACTOR QC INS  SUPSHIPS REP. \_\_\_\_\_

b6  
b7C

MEASURING INSTRUMENT USED 2-3" MIC CONTROL NO. 21 DATE LAST CALIBRATED 9-10-81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1	2.999 3.000	.001	2.999	XX		
#2	2.999 3.000	.001	2.999	XX		
#3	2.999 3.000	.001	2.999	XX		
#4	2.999 3.000	.001	3.000	XX		
#5	2.999 3.000	.001	2.999	XX		
#6	2.999 3.000	.001	2.999	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CAMSHAFT BEARING JOURNALS (RIGHT) S/N 12VA52793

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: sd-688-81

ARTICLE NO: 583-41-003 PARA NO: 3.7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE

MFG WEAR LIMITS

CONTRACTOR QC INSP

SUPSHIPS REP.

b6  
b7C

MEASURING INSTRUMENT USED 1-2" MIC CONTROL NO. M 1-22 DATE LAST CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
FRONT END CAM JOURNAL	1.4970 1.4975	.0005	1.4970	XX		
INTERMEDIATE #1	1.4980 1.4985	.0005	1.4980	XX		
#2	1.4980 1.4985	.0005	1.4980	XX		
#3	1.4980 1.4985	.0005	1.4980	XX		
#4	1.4980 1.4985	.0005	1.4980	XX		
#5	1.4980 1.4985	.0005	1.4980	XX		
REAR END CAM JOURNAL	1.4970 1.4975	.0005	1.4970	XX		



REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CAMSHAFT BEARING JOURNALS (LEFT) S/N 12VA52793

CONTRACTOR: SAV CITY MARINE

SHIP: USS NIPHAH (LKA-114) CONTRACT NO: BCM 116-81 SPEC NO: SD-688-81

ARTICLE NO: 583-41-003 PARA NO: 3:7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE  
MFG WEAR LIMITS

CONTRACTOR QC INSP.

SUPSHIPS REP.

MEASURING INSTRUMENT USED 1-2" MIC

CONTROL NO. M 1-22

DATE LAST  
CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
FRONT END CAM JOURNAL	1.4970 1.4975	.0005	1.4970	XX		
INTERMEDIATE #1	1.4980 1.4985	.0005	1.4980	XX		
#2	1.4980 1.4985	.0005	1.4980	XX		
#3	1.4980 1.4985	.0005	1.4980	XX		
#4	1.4980 1.4985	.0005	1.4980	XX		
#5	1.4980 1.4985	.0005	1.4980	XX		
REAR END CAM JOURNAL	1.4970 1.4975	.0005	1.4970	XX		

ART OR NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
ANK- TT	.004 .011	.007	.006	XX		
AM- RAFT	.004 .012	.008	.010	XX		
ALANCE- RAFT	.004 .012	.008	.008	XX		

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

**PROJECT:** GEAR TRAIN BACK LASHES S/N 12VA 52793

**CONTRACTOR:** BAY CITY MARINE

**SHIP:** USS DURHAM LKA-114 **CONTRACT NO.** BCM 116-81 **SPEC NO:** SD-688-81

**ITEM NO:** 583-41-003 **PARA. NO:** 3.7.10.49 **IDR NO:**            **PM NO:**           

**SHIP AND/OR PLAN AND/OR SKETCH REFERENCE**           

MFG WEAR LIMITS

**CONTRACTOR QC IN**  **SUPSHIPS REP.**            b6  
b7C

**MEASURING INSTRUMENT USED** DIAL IND. **CONTROL NO.** D 1-3 **DATE LAST CALIBRATED** 9/10/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
CAM TO CAM GEAR	.003 .008	.005	.005	XX		
R CAM TO IDLER GEAR	.003 .008	.005	.004	XX		
TOLER TO CRANK-SHAFT GEAR	.003 .008	.005	.004	XX		
BLOWER DRIVE GEAR	.003 .008	.005	.006	XX		

**SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT**

**SUBJECT:** BLOWER CLEARANCE S/N 12VA 52793 (FRONT)

**CONTRACTOR:** BAY CITY MARINE

**SHIP:** USS DURHAM LKA-114      **CONTRACT NO:** BCM 116-81      **SPEC NO:** SD-688-81

ARTICLE NO: 583-41-003      PARA NO: 3.7.10.49      IDR NO:      PH NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE:

## MFG WEAR LIMITS

**CONTRACTOR QC INSPECTION**

**SUPSHIPS REP.**

b6

**b7C**

MEASURING INSTRUMENT USED DIAL IND.  
FEELER GAUGE

CONTROL NO. -- D 1-3

DATE LAST  
CALIBRATED 9/10/81

READINGS AS FOUND

**CALIBRATION MARKED**

**YES**      **NO**

**NO**

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
ROTOR TRAILING EDGE	MIN. .002 MAX. .006	.004.	.008		XX	
ROTOR LEADING EDGE	MIN. .016 MAX. .022	.006	.010		XX	
ROTOR TO FRONT END PLATE	MIN. .007 MAX. .009	.002	.008	XX	..	
ROTOR TO REAR END PLATE	MIN. .007 MAX. .009	.002	.016		XX	
ROTOR TO HOUSING INLET SIDE	MIN. .017 MAX. .019	.002	.012		XX	
ROTOR TO HOUSING OUTLET	MIN. .005 MAX. .007	.002	.004	..	XX	
TIMING GEAR BACKLASH	MIN. .0005 MAX. .004	.0035	.002	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: BLOWER CLEARANCE S/N 12VA52793 (REAR)

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114

CONTRACT NO: BCM 116-81

SPEC NO: SD-688-81

ARTICLE NO: 583-41-003

PARA NO: 3.7.10.49

IDR NO:

PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE:

MFG WEAR LIMITS

CONTRACTOR QC INSP.

SUPSHIPS REP.

b6  
b7C

MEASURING INSTRUMENT USED DIAL IND..

CONTROL NO. D 1-3

DATE LAST  
CALIBRATED 9/10/81

READINGS AS FOUND

FEELER GAUGE

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
ROTOR TRAILING EDGE	MIN. .002 MAX. .006	.004	.005	XX		
ROTOR LEADING EDGE	MIN. .016 MAX. .022	.006	.010		XX	
ROTOR TO FRONT END PLATE	MIN. .007 MAX. .009	.002	.009	XX		
ROTOR TO REAR END PLATE	MIN. .007 MAX. .009	.002	.015		XX	
ROTOR TO HOUSING INLET SIDE	MIN. .017 MAX. .019	.002	.014		XX	
ROTOR TO HOUSING OUTLET	MIN. .005 MAX. .007	.002	.007	XX		
TIMING GEAR BACKLASH	MIN. .0005 MAX. .004	.0035	.003	XX		

## BAY CITY MARINE, INC.

STEEL FABRICATION

JOB WELDING PROCESS  
CONTROL PROCEDURE  
NUMBER 116-#1

MACHINE INSTALLATION

2048 NEWTON AVENUE

PHONE 235-8367

Reference: NAVSEA Standard Items, Item No: 009-12

Vessel LCM-8 (2EA) Hull No #6783 BCM Jr. Or. 116-81COAAR \_\_\_\_\_ Item No 583-41-003 Para No \_\_\_\_\_

1. Item Name PRESERVATION Class (MIL-STD-278) \_\_\_\_\_
2. Purpose: 12" ACCESS CUTS IN ENGINE SPACE & LAZARETTE SPACE TO REMOVE ABRASIVE BLASTING MATERIAL

3. Welding Process GMAW Welding Position HORZ.4. Joint Design out of MIL-STD-22B B2V.1 For Drawing see Enclosure (1)  
Maximum After Welding Alignment Tolerance for Access Closure Joint \_\_\_\_\_

5. Base Metal: ALUMINUM to ALUMINUM  
Spec QA-A-250/19 Gr/Cl 5086 Thickness 5/16" "S" Gp S-25  
to  
Spec QA-A-250/19 Gr/Cl 5086 Thickness 5/16" "S" Gp S-25

6. Filler Metal:  
Spec MIL-E-16053 Type 5356 Diameter 0.35 "A" Gp S-25  
Filler metal to be handled in accordance with PCI-206

7. Minimum Preheat Temperature \_\_\_\_\_ Maximum Interpass Temp \_\_\_\_\_  
Postweld Heat Treatment or Postheating: Temperature \_\_\_\_\_ Time \_\_\_\_\_

8. Welding parameters developed in accordance with Government Standard or instruction NAVSHIPS 0900-060-4010 and BC MARINE Welding Procedure \_\_\_\_\_

9. Welder shall be currently certified pursuant to MIL-STD- 00248B (Ship)

10. Type of Nondestructive Test: \_\_\_\_\_ Acceptance Standard: \_\_\_\_\_  
VISUAL INSPECTION NAVSHIPS 0900-060-4010

- a. NDT shall be inspected and documented by a person certified to NAVSHIPS 0900-006-8010 and BC Marine Procedure \_\_\_\_\_, except visual and intermediate Dye Penetrant may be conducted by a designated qualified person.
- b. Acceptance standard for required Radiographic, Ultrasonic, or Visual inspection of existing weld extending six inches beyond the required outbacks in closure plate openings shall be crack free.

11. A copy of this approved procedure shall be posted at the work location and in the possession of the immediate on site supervisor prior the start of welding.

Notes:



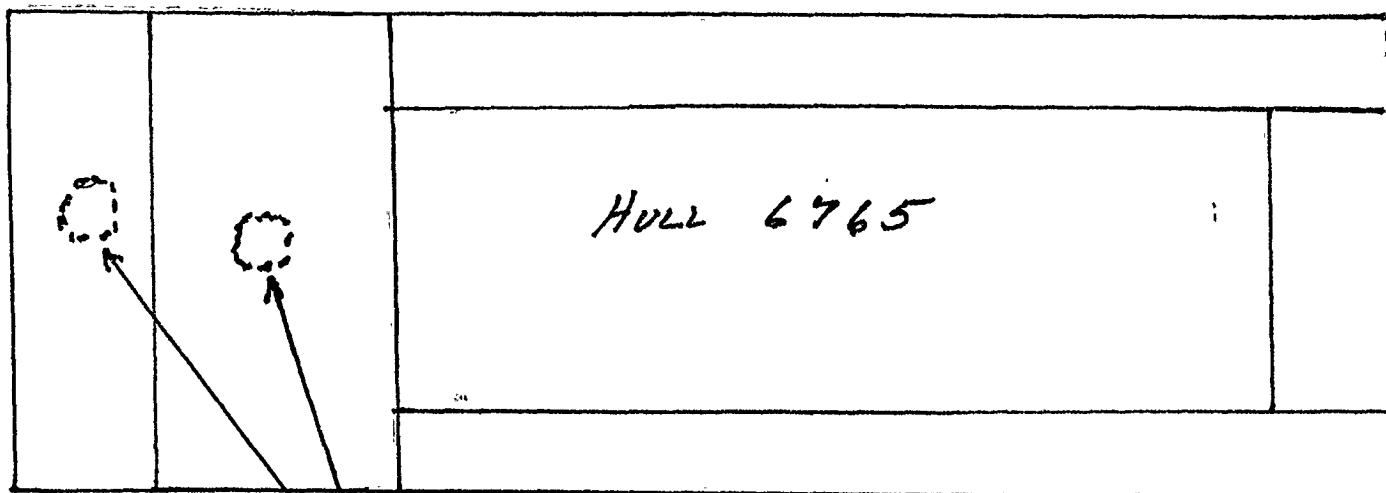
10/2/81  
e/Date



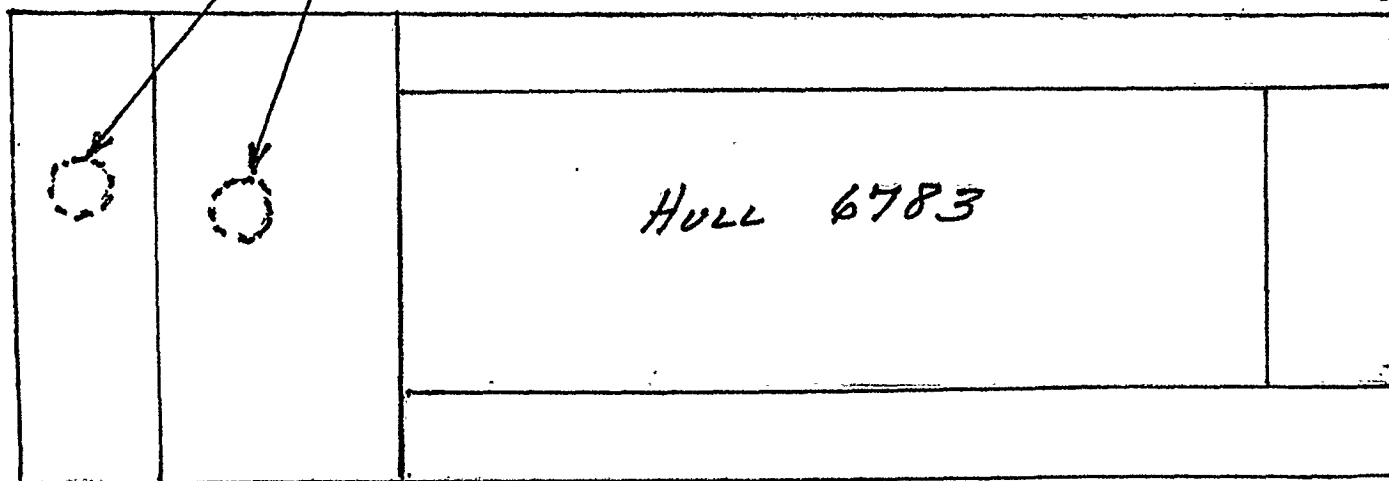
ector/Date

SUPSHIP SDGO QAR (Code 342) : : : Date

b6  
b7C

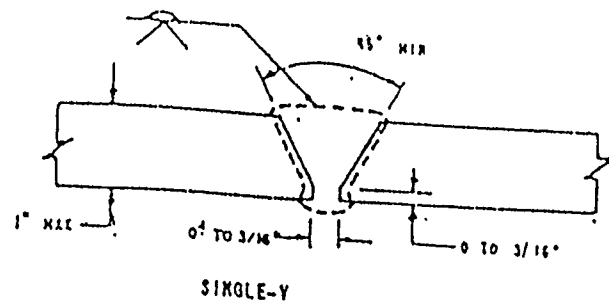


12" ACCESS CUTS



MIL-STD-0022C (JH)  
29 August 1977

B2Y.1





# LETTER OF TRANSMITTAL

No. LOT 11

FROM: **BAY CITY MARINE, INC.**  
1411 Harding Avenue  
National City, CA 92050

Contract: 316-01 Date: 10-15-01

Vessel: 1 CM-R Hull: 48753

Item: 583-A1-004 Mod. \_\_\_\_\_

Spec. S/D 583-01

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Attn: Code # 1809-1D

Reference:

- ☐ Required Report(s)
- ☐ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/ J 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

Enclosure(s):

**AS FOUND REPORT**

Comments:

**BAY CITY MARINE, INC.**

Signature: \_\_\_\_\_ Date: 10-15-01

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

b6  
b7C

JIM  
PLANNED



7/25

PLASMAR

18

LOWER STBD RUB RAIL - CROP-OUT 17' AFT & 1' 6" FWD.  
UPPER PORT RUB RAIL - CROP-OUT 15' AFT & 12' 6" FWD.  
46' TOTAL

150 LIN FT

PORT SIDE RAMP SQ. STOCK - CROP-OUT APPROX 4' & RENEW  
COUNT FROM FWD #4 & #8  
~~NOT CALLED OUT~~  
COVERED 100%

BOTTOM - 4 CRACKS IN LAZ (2 PORT & 2 STBD) V-OUT & WELD  
ON 2, APPROX 6" LONG - INSERT 2 WITH 6" DIA INSERTS  
USING BACK-UP STRIPS. 100 SQ FT.

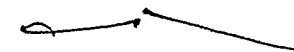
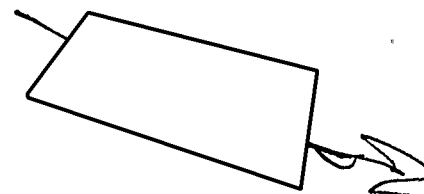
FWD STBD RAMP CORNER - CLAD WELD APPROX 8"  
STBD RAMP SHEET COVER & RAMP AREA - APPROX 1 SQ. FT.  
REPLACE & REPAIR. 20 SQ. FT.

STBD. AFT CORNER - CROP-OUT & RENEW DAMAGED  
AREA, APPROX 16" x 24"  
100 SQ. FT.

PORT SKEG - CROP-OUT & RENEW MOST FWD. END 36".  
APPROX 16" x 24" AFT. 100 SQ. FT.

MAG PART OR UT P/S STRUTS.  
UT BOTTOM PLT FROM MIDSHIP TO FR #3 OUTBOARD STRAKES.

28 w/MACHAT  
24



b6  
b7C

**NATIONAL PUMP & INJECTOR SALES & SERVICE, INC.**

2307 East Belt Street

San Diego, California 92113

Phone: Area Code 714, 232-0831

October 14, 1981

Bay City Marine  
1411 Harding Avenue  
National City, Calif 92050

Subject: U.S.S. Durham LKA-114  
BCM 116-81, Spec #688-81  
Item #583-41-004, LCM'8  
2 each 12V71 G.M. Diesel  
Engines, S/N 12VA53220  
S/N 12VA53217

Gentlemen:

The following conditions were noted and recorded during the dis-assembly, cleaning and inspecting of subject engines.

Engine S/N 12VA53220

Crankshaft cracked (See NDT Report). Crankshaft scored. Right exhaust manifold broken. Right bank thermostat housing broken. Water temp and fuel oil pressure sending units broken. Engine lube oil contaminated with fuel oil. Fuel oil jumper lines damaged. Both valve covers damaged. Blower coupling damaged. Blower drive gears rusty and pitted. Blower coupling cover damaged.

Trasmission & P.T.O.

Bearings worn and scored. Forward clutch plates worn and warped. Forward clutch springs broken.

Missing Parts Report

Generator, RPA Hydraulic pumps.

Engine S/N 12VA53217

Crankshaft worn beyond manufacture wear limits. Cam rollers worn and scored. Vibration dampner damaged.

Continue

Transmission & P.T.O.

Forward clutch springs broken. Reverse springs broken. Bearings worn and scored. Forward and reverse clutch plates worn and warped.

Missing Parts Report

Generator, RPA Hydraulic Pumps.

Recommend the following list of material be repaired and or replaced

1	5146734	CRANKSHAFT
1	5162715	RIGHT BANK EXHAUST MANIFOLD
1	5172628	RT BANK THERMOSTAT HOUSING
12	5111527	FUEL OIL JUMPER LINES (L)
1	5103744	VALVE COVERS
2	5149512	VALVE COVER INST KITS
1	5103377	BLOWER COUPLING
1	5196763	BLOWER COUPLING COVER
12	5111526	FUEL OIL JUMPER LINES (S)

Transmission

1	MA648	BALL BEARING
1	MA647	ROLLER BEARING
2	M2175B	BALL BEARING
2	M2104	BALL BEARING
2	MA649	BALL BEARING
1	M2475A	BALL BEARING
2	MA293	BALL BEARING
1	M2167	BALL BEARING

Engine S/N 12VA53217

( NONE )

Bay City Marine

Page #3

Continue

Transmission

1	MA648	BALL BEARING
1	MA647	BEARING, ROLLER
2	M2175B	BALL BEARING
2	M2104	BALL BEARING
2	MA649	BALL BEARING
1	M2475A	BALL BEARING
2	MA293	BALL BEARING
1	M2167	BALL BEARING

Very truly yours,



b6  
b7C

Quan	Accept	RT	PT	MT
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REPORT NO. 200

SUPERVISOR OF SHIPBUILDING; CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CYLINDER BLOCK BORES (RIGHT BANK) S/N J2VA53220

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD 688-81

ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO: PII NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE

MFG WEAR LIMITS

CONTRACTOR QC INSP

SUPSHIPS REP.

b6

b7C

MEASURING INSTRUMENT USED BORE GAUGES

CONTROL NO. DBG-1

DATE LAST

CALIBRATED 8/24/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1 CYLINDER	4.6265 4.6275	.001	T. 4.6269 M. 4.6268 B. 4.6265	XX XX XX		
#2 CYLINDER	4.6265 4.6275	.001	T. 4.6271 M. 4.6266 B. 4.6268	XX XX XX		
#3 CYLINDER	4.6265 4.6275	.001	T. 4.6272 M. 4.6269 B. 4.6268	XX XX XX		
#4 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6268 B. 4.6267	XX XX XX		
#5 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6274 B. 4.6270	XX XX XX		
#6 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6270 B. 4.6266	XX XX XX		



REPORT NO. 200

**SUPERVISOR OF SHIPBUILDING: CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT**

**SUBJECT:** CYLINDER BLOCK BORES (LEFT BANK) S/N 12VA53220

**CONTRACTOR:** BAY CITY MARINE

**SHIP:** USS DURHAM LKA-114 **CONTRACT NO:** BCM 116-81 **SPEC NO:** SD 688-81

**ARTICLE NO:** 583-41-004 **PARA NO:** 5.7.10.49 **IDR NO:** **PII NO:**

**NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE**

MFG (WEAR LIMITS)

**CONTRACTOR QC INSP**

**SUPSHIPS REP.**

b6  
b7C

**MEASURING INSTRUMENT USED** BORE GAUGES

**CONTROL NO.** DBC J

**DATE LAST CALIBRATED** 1/24/81

READINGS AS FOUND

**CALIBRATION MARKED** YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1 CYLINDER	4.6265 4.6275	.001	T. 4.6272 M. 4.6268 B. 4.6266	XX XX XX		
#2 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6270 B. 4.6266	XX XX XX		
#3 CYLINDER	4.6265 4.6275	.001	T. 4.6272 M. 4.6271 B. 4.6269	XX XX XX		
#4 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6270 B. 4.6265	XX XX XX		
#5 CYLINDER	4.6265 4.6275	.001	T. 4.6271 M. 4.6270 B. 4.6268	XX XX XX		
#6 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6272 B. 4.6269	XX XX XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CRANKSHAFT MAIN BEARING JOURNALS S/N 12VA53220

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD-688-81

ARTICLE NO: 583-41-004 PARA. NO: 3.7.10.49 IDR NO: \_\_\_\_\_ PM NO: \_\_\_\_\_

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE \_\_\_\_\_

MFG WEAR LIMITS

CONTRACTOR QC INSP

SUPSHIPS REP. \_\_\_\_\_

b6  
b7c

MEASURING INSTRUMENT USED 4-5" MIC

CONTROL NO. M 1-5

DATE LAST  
CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED

YES

NO

PART OR C NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1	4.499 4.500	.001	4.499	XX		
#2	4.499 4.500	.001	4.499	XX		
#3	4.499 4.500	.001	4.499	XX		
#4	4.499 4.500	.001	4.499	XX		
#5	4.499 4.500	.001	4.499	XX		
#6	4.499 4.500	.001	4.499	XX		
#7	4.499 4.500	.001	4.499	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CONNECTING ROD JOURNALS S/N 12VA53270

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD688-81

ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO: \_\_\_\_\_ PM NO: \_\_\_\_\_

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE: \_\_\_\_\_

MFG WEAR LIMITS

CONTRACTOR QC

SUPSHIPS REP. \_\_\_\_\_

b6  
b7C

MEASURING INSTRUMENT USED 2-3" MIC

CONTROL NO. 21

DATE LAST  
CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED (YES) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1	<u>2.999</u> <u>3.000</u>	.001	3.000	XX		
#2	<u>2.999</u> <u>3.000</u>	.001	2.9995	XX		
#3	<u>2.999</u> <u>3.000</u>	.001	2.9990	XX		
#4	<u>2.999</u> <u>3.000</u>	.001	2.9990	XX		
#5	<u>2.999</u> <u>3.000</u>	.001	2.9990	XX		
#6	<u>2.999</u> <u>3.000</u>	.001	2.9990	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CONNECTING ROD JOURNALS S/N 12VA53270

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD688-81

ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO:          PM NO:         

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE:         

MFG WEAR LIMITS

CONTRACTOR Q          SUPSHIPS REP.          b6  
b7C

MEASURING INSTRUMENT USED 2-3" MIC CONTROL NO. 21 DATE LAST CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED (YES) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1	<u>2.999</u> <u>3.000</u>	.001	3.000	XX		
#2	<u>2.999</u> <u>3.000</u>	.001	2.9995	XX		
#3	<u>2.999</u> <u>3.000</u>	.001	2.9990	XX		
#4	<u>2.999</u> <u>3.000</u>	.001	2.9990	XX		
#5	<u>2.999</u> <u>3.000</u>	.001	2.9990	XX		
#6	<u>2.999</u> <u>3.000</u>	.001	2.9990	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CAMSHAFT BEARING JORNALS RIGHT S/N 12VA53220

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD 688-81

ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE  
MFG WEAR LIMITS

CONTRACTOR QC INSP.

SUPSHIPS REP.

b6  
b7C

MEASURING INSTRUMENT USED 1-2" MIC

CONTROL NO. M 1-22

DATE LAST  
CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
FRONT END CAM JOURNAL	1.4970 1.4975	.0005	1.4970	XX		
INTERMEDIATE #1	1.4980 1.4985	.0005	1.4980	XX		
#2	1.4980 1.4985	.0005	1.4980	XX		
#3	1.4980 1.4985	.0005	1.4980	XX		
#4	1.4980 1.4985	.0005	1.4980	XX		
#5	1.4980 1.4985	.0005	1.4980	XX		
REAR END CAM JOURNAL	1.4970 1.4975	.0005	1.4970	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CAMSHAFT BEARING JOURNALS S/N 12VA53220 (LEFT)

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD 688-81

ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE  
MFG WEAR LIMITS

CONTRACTOR QC INSP.

SUPSHIPS REP.

b6  
b7c

MEASURING INSTRUMENT USED 1-2" MIC

CONTROL NO. M 1-22 DATE LAST CALIBRATED 9/10/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
FRONT END CAM JOURNAL	1.4970 1.4975	.0005	1.4970	XX		
INTERMEDIATE #1	1.4980 1.4985	.0005	1.4980	XX		
#2	1.4980 1.4985	.0005	1.4980	XX		
#3	1.4980 1.4985	.0005	1.4980	XX		
#4	1.4980 1.4985	.0005	1.4980	XX		
#5	1.4980 1.4985	.0005	1.4980	XX		
REAR END CAM JOURNAL	1.4970 1.4975	.0005	1.4970	XX		

**SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT**

**SUBJECT:** END THRUST, CRANKSHAFT, CAMSHAFT, BALANCE SHAFT S/N 12VA53220

**TRACTOR:** BAY CITY MARINE

**SHIP:** USS DURHAM LKA-114 **CONTRACT NO:** BCM 116-81 **SPEC NO:** SD 688-81

**FIGURE NO:** 583-41-004 **PARA. NO.** 3.7.10.49 **IDR NO.**          **PM NO.**         

**SHIP AND/OR PLAN AND/OR SKETCH REFERENCE**         

MFG WEAR LIMITS

**TRACTOR QC INSP**         

**SUPSHIPS REP,**         

b6  
b7C

**MEASURING INSTRUMENT USED** DIAL IND. **CONTROL NO:** D 1-3 **DATE LAST CALIBRATED** 9/10/81

**READINGS AS FOUND**

--- **CALIBRATION MARKED** **YES** **NO**

<b>PART OR FIG NO.</b>	<b>REFERENCE DIMENSION</b>	<b>REFERENCE TOLERANCE</b>	<b>MEASURED DIMENSION</b>	<b>ACCEPT</b>	<b>REJECT</b>	
<b>CRANK- SHAFT</b>	.004 .011	.007	.008	XX		
<b>CAM- SHAFT</b>	.004 .012	.008	.011	XX		
<b>BALANCE- SHAFT</b>	.004 .012	.008	.010	XX		

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORTSUBJECT: BLOWER CLEARANCE S/N 12VA 53220 (FRONT)CONTRACTOR: RAV CITY MARINESHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD-688-81ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO: \_\_\_\_\_ PM NO: \_\_\_\_\_

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE: \_\_\_\_\_

MFG WEAR LIMITS  
\_\_\_\_\_  
\_\_\_\_\_CONTRACTOR QC INSP 

SUPSHIPS REP. \_\_\_\_\_

b6  
b7CMEASURING INSTRUMENT USED DIAL IND.  
FEELER GAUGECONTROL NO. --D 1-3DATE LAST  
CALIBRATED 10/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
ROTOR TRAILING EDGE	MIN. .002 MAX. .006	.004	.006	XX		
ROTOR LEADING EDGE	MIN. .016 MAX. .022	.006	.009		XX	
ROTOR TO FRONT END PLATE	MIN. .007 MAX. .009	.002	.008	XX		
ROTOR TO REAR END PLATE	MIN. .007 MAX. .009	.002	.015		XX	
ROTOR TO HOUSING INLET SIDE	MIN. .017 MAX. .019	.002	.014		Xx	
ROTOR TO HOUSING OUTLET	MIN. .005 MAX. .007	.002	.006	XX		
TIMING GEAR BACKLASH	MIN. .0005 MAX. .004	.0035	.003	XX		



**SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT**

SUBJECT: BLOWER CLEARANCE S/N 12VA 53220 (REAR)CONTRACTOR: BAY CITY MARINESHIP: USS DURHAM LKA-114 CONTRACT NO: BCM 116-81 SPEC NO: SD 688-81ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO: \_\_\_\_\_ PM NO: \_\_\_\_\_

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE: \_\_\_\_\_

MFG WEAR LIMITS \_\_\_\_\_

CONTRACTOR QC INS 

SUPSHIPS REP. \_\_\_\_\_

b6

b7C

MEASURING INSTRUMENT USED DIAL IND.  
FEELER GAUGECONTROL NO. 07-3

DATE LAST

CALIBRATED 2/10/81

READINGS AS FOUND

CALIBRATION MARKED YES NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
ROTOR TRAILING EDGE	MIN. .002 MAX. .006	.004	.010		XX	
ROTOR LEADING EDGE	MIN. .016 MAX. .022	.006	.008.		XX	
ROTOR TO FRONT END PLATE	MIN. .007 MAX. .009	.002	.016		XX	
ROTOR TO REAR END PLATE	MIN. .007 MAX. .009	.002	.008	XX		
ROTOR TO HOUSING INLET SIDE	MIN. .017 MAX. .019	.002	.012		XX	
ROTOR TO HOUSING OUTLET	MIN. .005 MAX. .007	.002	.006	XX		
TIMING GEAR BACKLASH	MIN. .0005 MAX. .004	.0035	.001	XX		

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORTSUBJECT: GEAR TRAIN BACK LASHES S/N 12VA 53220TRACTOR: BAY CITY MARINESHIP: USS DURHAM LKA-114CONTRACT NO. RCM 116-81SPEC NO: SD-688-81ARTICLE NO: 583-41-004PARA. NO: 3.7.10.49

IDR NO: \_\_\_\_\_

PM NO: \_\_\_\_\_

SHIP AND/OR PLAN AND/OR SKETCH REFERENCE \_\_\_\_\_

MFG WEAR LIMITS \_\_\_\_\_

CONTRACTOR QC INSP 

SUPSHIPS REP. \_\_\_\_\_

b6

b7c

MEASURING INSTRUMENT USED DIAL IND.CONTROL NO. D 1-3

DATE LAST

CALIBRATED

9/10/81

READINGS AS FOUND

CALIBRATION MARKED

YES

NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
CAM TO CAM GEAR	.003 .008	.005	.005	XX		
R. CAM IDLER TO GEAR	.003 .008	.005	.004	XX		
IDLER TO CRANK- SHAFT GEAR	.003 .008	.005	.005	XX		
BLOWER DRIVE GEAR	.003 .008	.005	.008	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING; CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CYLINDER BLOCK BORES (RIGHT BANK) S/N 12VA43217

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA -114 CONTRACT NO: BCM 116-81 SPEC NO: SD -688-81

ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO: PII NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE

MFG. WEAR LIMITS

CONTRACTOR QC IN

SUPSHIPS REP.

b6  
b7C

MEASURING INSTRUMENT USED BORE GAUGES

CONTROL NO. DBG -1

DATE LAST CALIBRATED 8-24-81

READINGS AS FOUND

CALIBRATION MARKED ( YES) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1 CYLINDER	4.6265 4.6275	.001	T. 4.6273 M. 4.6271 B. 4.6268	XX XX XX		
#2 CYLINDER	4.6265 4.6275	.001	T. 4.6272 M. 4.6273 B. 4.6270	XX XX XX		
#3 CYLINDER	4.6265 4.6275	.001	T. 4.6274 M. 4.6271 B. 4.6271	XX XX XX		
#4 CYLINDER	4.6265 4.6275	.001	T. 4.6270 M. 4.6271 B. 4.6268	XX XX XX		
#5 CYLINDER	4.6265 4.6275	.001	T. 4.6275 M. 4.6273 B. 4.6268	XX XX XX		
#6 CYLINDER	4.6265 4.6275	.001	T. 4.6272 M. 4.6271 B. 4.6269	XX XX XX		

REPORT NO. 200

**SUPERVISOR OF SHIPBUILDING; CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT**

(LEFT BANK) S/N 12VA53217

**SUBJECT:** CYLINDER BLOCK BORES

**CONTRACTOR:** BAY CITY MARINE

**SHIP:** USS DURHAM LKA-114

**CONTRACT NO:** BCM 116-81

**SPEC NO:** SD 688-81

**ARTICLE NO:** 583-41-004

**PARA NO:** 3.7.10.49

**IDR NO:**

**PII NO:**

**SHIP AND/OR PLAN AND/OR SKETCH REFERENCE**  
MFG. WEAR LIMITS

**CONTRACTOR QC INS**

**SUPSHIPS REP.**

b6  
b7C

**MEASURING INSTRUMENT USED** BORE GAUGES

**CONTROL NO.** DBG -1

**DATE LAST CALIBRATED** 8-24-81

READINGS AS FOUND

CALIBRATION MARKED ( YES ) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
01 CYLINDER	4.6265 4.6275	.001	T. 4.6274	XX		
			M. 4.6272	XX		
			B. 4.6265	XX		
02 CYLINDER	4.6265 4.6275	.001	T. 4.6270	XX		
			M. 4.6270	XX		
			B. 4.6268	XX		
03 CYLINDER	4.6265 4.6275	.001	T. 4.6272	XX		
			M. 4.6271	XX		
			B. 4.6271	XX		
04 CYLINDER	4.6265 4.6275	.001	T. 4.6272	XX		
			M. 4.6272	XX		
			B. 4.6271	XX		
05 CYLINDER	4.6265 4.6275	.001	T. 4.6273	XX		
			M. 4.6272	XX		
			B. 4.6270	XX		
06 CYLINDER	4.6265 4.6275	.001	T. 4.6274	XX		
			M. 4.6272	XX		
			B. 4.6266	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CONNECTING ROD JOURNALS CRANKSHAFT S/N 12VA53217

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA 114 CONTRACT NO: BCM 116-81 SPEC NO: SD 688-81

ARTICLE NO: 583-41-004      PARA NO: 3.7.10.49      IDR NO:      PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE: \_\_\_\_\_

### MFG WEAR LIMITS

b6

b7C

CONTRACTOR QC INSP.

SUPSHIPS REP.

MEASURING INSTRUMENT USED 2-3" mic

CONTROL NO. 21

DATE LAST CALIBRATED 9-10-81

READINGS AS FOUND

CALIBRATION MARKED ( YES ) NO

READINGS AS FOUND						
PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1	2.999 3.000	.001	2.999	XX		
#2	2.999 3.000	.001	2.999	XX		
#3	2.999 3.000	.001	2.999	XX		
#4	2.999 3.000	.001	2.999	XX		
#5	2.999 3.000	.001	2.999	XX		
#6	2.999 3.000	.001	2.999	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CRANKSHAFT MAIN BEARING JOURNALS S/N 12VA53217

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM CONTRACT NO: BCM 116-81 SPEC NO: SD 688-81

ARTICLE NO: 583-41-004 . PARA. NO: 3.7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE

### MFG WEAR LIMITS

CONTRACTOR QC INSP

SUPSHIPS REP.

MEASURING INSTRUMENT USED MICROMETER 4-5"

CONTROL NO. M1-5      DATE LAST CALIBRATED 9-10-81

### READINGS AS FOUND

CALIBRATION MARKED ( YES ) NO

PART OR C NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
#1	4 .499 4 .500	.001	4.4985		XX	
#2	4 .499 4 .500	.001	4.4985		XX	
#3	4 .499 4 .500	.001	4.499	XX		
#4	4 .499 4 .500	.001	4.4985		XX	
#5	4 .499 4 .500	.001	4.498		XX	
#6	4 .499 4 .500	.001	4.4985		XX	
#7	4 .499 4 .500	.001	4.499	XX		

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: CAMSHAFT JOURNALS (RIGHT) S/N 12VA53217

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA -114 CONTRACT NO: BCM 116-81 SPEC NO: SD 668-81

ARTICLE NO: 583-41-004 PARA NO: 3.7, 10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE

MFG WEAR LIMITS

CONTRACTOR QC INS

SUPSHIPS REP.

b6  
b7C

MEASURING INSTRUMENT USED 1-2" mic

CONTROL NO. D1-3

DATE LAST  
CALIBRATED 9-10-81

READINGS AS FOUND

CALIBRATION MARKED (YES) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
FRONT END JOURNAL	1.4970 1.4975	.0005	1.496		XX	
INTERMEDIATE #1	1.4980 1.4985	.0005	1.497		XX	
#2	1.4980 1.4985	.0005	1.496		XX	
#3	1.4980 1.4985	.0005	1.497		XX	
#4	1.4980 1.4985	.0005	1.497		XX	
#5	1.4980 1.4985	.0005	1.497		XX	
REAR END CAM JOURNAL	1.4970 1.4975	.0005	1.496		XX	

REPORT NO. 200

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
LEFT DIMENSIONAL INSPECTION REPORT

SUBJECT: CAMSHAFT ~~JOURNALS~~ JOURNALS S/N 12VA53217

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA -114 CONTRACT NO: BCM -116-81 SPEC NO: SD 688-81

ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO: PM NO:

NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE

MFG. WEAR LIMITS

CONTRACTOR QC I

SUPSHIPS REP.

MEASURING INSTRUMENT USED 1-2" mic

CONTROL NO. M1-22

DATE LAST CALIBRATED 9-10-81

READINGS AS FOUND

CALIBRATION MARKED ( YES ) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
FRONT END CAM JOURNAL	1.4970 1.4975	.0005	1.497	XX		
INTERMEDIATE #1	1.4980 1.4985	.0005	1.496		XX	
#2	1.4980 1.4985	.0005	1.497		XX	
#3	1.4980 1.4985	.0005	1.497		XX	
#4	1.4980 1.4985	.0005	1.497		XX	
#5	1.4980 1.4985	.0005	1.497		XX	
REAR END CAM JOURNAL	1.4970 1.4975	.0005	1.4965		XX	



**SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT**

**SUBJECT:** END THRUST, CRANKSHAFT, CAMSHAFT. S/N 12VA53217

**TRACTOR:** BAT CITY MARINE

**SHIP:** USS DURHAM LKA114 **CONTRACT NO:** BCM 116-81 **SPEC NO:** SD 688-81

**FILE NO:** 583-41-004 **PARA. NO.** 3.7.10.49 **IDR NO.**          **PM NO.**         

**SHIP AND/OR PLAN AND/OR SKETCH REFERENCE**  
MFG. WEAR LIMITS.

**TRACTOR QC INS**  **SUPSHIPS REP.**         

**MEASURING INSTRUMENT USED** DIAL IND **CONTROL NO:** D1-3 **- DATE LAST CALIBRATED** 9/10/81

READINGS AS FOUND

--- CALIBRATION MARKED ( YES ) NO

PART OR G NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
CRANK- SHAFT	.004 .011	.007	.005	XX		
CAM- R SHAFT	.004 .012	.008	.010	XX		
CAM L SHAFT	.004 .012	.008	.011	XX		

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND  
DIMENSIONAL INSPECTION REPORT

SUBJECT: GEAR TRAIN BACK LASHES S/N 12VA53217

CONTRACTOR: BAY CITY MARINE

SHIP: USS DURHAM LKA -114 CONTRACT NO. BCM 116-81 SPEC NO: SD 688-81

ARTICLE NO: 583-41-004 PARA. NO: 3.7.10.49 IDR NO: PM NO:

VSHIP AND/OR PLAN AND/OR SKETCH REFERENCE

MFG. WEAR LIMITS

b6  
b7C

CONTRACTOR QC INS

SUPSHIPS REP.

MEASURING INSTRUMENT USED DIAL IND

CONTROL NO. D1-3

DATE LAST  
CALIBRATED 9-10-81

READINGS AS FOUND

CALIBRATION MARKED ( YES ) NO

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
CAM AND RIGHT GEAR	.003 .008	.005	.004	XX		
RIGHT TO IDLER GEAR	.003 .008	.005	.003	XX		
IDLER CRANK- SHAFT GEAR	.003 .008	.005	.004	XX		
BLOWER DRIVE GEAR	.003 .008	.005	.006	XX		

**SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN 11ND**  
**DIMENSIONAL INSPECTION REPORT**

**SUBJECT:** BLOWER CLEARANCE FRONT S/N 12VA53217

**CONTRACTOR:** BAY CITY MARINE

**SHIP:** USS DURHAM LKA -114 **CONTRACT NO:** BCM 116-81 **SPEC NO:** SD -688-81

ARTICLE NO: 583-41-004 PARA NO: 3.7.10.49 IDR NO: PM. NO:

**NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE:**

### MFG. WEAR LIMITS

b6  
b7C

**CONTRACTOR QC INSP.**

**SUPSHIPS REP.**

MEASURING INSTRUMENT USED DIAL IND  
FEELER GAUGE

CONTROL NO. - D1-3

**DATE LAST 9-10-81  
CALIBRATED**

## FEELER GAUGE

**CALIBRATION MARKED ( YES) NO**

READINGS AS FOUND			CALIBRATION MARKED ( YES/ NO )			
PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
ROTOR TRAILING EDGE	MIN. 002 MAX. 006	.004	.005	XX		
ROTOR LEADING EDGE	MIN. 016 MAX. 022	.006	.010		XX	
ROTOR TO FRONT END PLATE	MIN. 007 MAX. 009	.002	.008	XX		
ROTOR TO REAR END PLATE	MIN. 007 MAX. 009	.002	.014		XX	
ROTOR TO HOUSING INLET SIDE	MIN. 017 MAX. 019	.002	.014		XX	
ROTOR TO HOUSING OUTLET	MIN. 005 MAX. 007	.002	.007	XX		
TIMING GEAR BACKLASH	MIN. 0005 MAX. 004	.0035	.002	XX		

REPORT NO. 200

**SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, (SN 11ND)  
DIMENSIONAL INSPECTION REPORT**

**SUBJECT:** BLOWER CLEARANCE (REAR\_) 12VA53217

**CONTRACTOR:** BAY CITY MARINE

**SHIP:** USS DURHAM LKA-114 **CONTRACT NO:** BCM 116-81 **SPEC NO:** SD-688-81

**ARTICLE NO:** 583-41-004 **PARA NO:** 3.7.10.49 **IDR NO:**            **PM NO:**           

**NAVSHIP AND/OR PLAN AND/OR SKETCH REFERENCE:**             
MFG. WEAR LIMITS

**CONTRACTOR QC INSP**  **SUPSHIPS REP.**             
**MEASURING INSTRUMENT USED** DIAL IND. **CONTROL NO.** B1-3 **DATE LAST CALIBRATED** 9-10-81

**READINGS AS FOUND**

**CALIBRATION MARKED ( YES ) NO**

PART OR PC NO.	REFERENCE DIMENSION	REFERENCE TOLERANCE	MEASURED DIMENSION	ACCEPT	REJECT	
ROTOR TRAILING EDGE	MIN. .002 MAX. .006	.004	.006	XX		
ROTOR LEADING EDGE	MIN. .016 MAX. .022	.006	.008		XX	
ROTOR TO FRONT END PLATE	MIN. .007 MAX. .009	.002	.010		XX	
ROTOR TO REAR END PLATE	MIN. .007 MAX. .009	.002	.015		XX	
ROTOR TO HOUSING INLET SIDE	MIN. .017 MAX. .019	.002	.012		XX	
ROTOR TO HOUSING OUTLET	MIN. .005 MAX. .007	.002	.006	XX		
PISTON RING GEAR BACKLASH	MIN. .0005 MAX. .004	.0035	.0015	XX		

# LETTER OF TRANSMITTAL

No. LOT 11 A

FROM:

**BAY CITY MARINE, INC.**

1411 Harding Avenue  
National City, CA 92050

Contract: 116-81 Date: 10-20-81

Vessel: LCM-8 Hull: 74CM6783

Item: 583-41-004 Mod. \_\_\_\_\_

Spec. S/D 688-81

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

Attn: Code # 1509-1D MEDRANO

- ☐ Required Report(s)
- ☐ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/D 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

Enclosure(s):

REQUEST HULL INSPECTION PER PARA 3.16 OF ITEM  
XXX: 583-41-004 PT III

Comments:

REQUEST FORMAL HULL INSPECTION 0900, 10-22-81

OCT 20 10 09 AM '81  
CONTRACTS

*TIME & DATE ACCEPTABLE*

BAY CITY MARINE, INC. *(Signature)*

Signature

Date: 10-20-81

Supships

Signature

Date: 10-21-81

b6  
b7c

# LETTER OF TRANSMITTAL

No. LOT 15

FROM:

**BAY CITY MARINE, INC.**

1411 Harding Avenue  
National City, CA 92050

Contract: 116-81 Date: 10-28-81

Vessel: LCM-8 Hull: 765

Item: \_\_\_\_\_ Mod. 2 ✓

Spec. S/D 688-81

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

ULTRASONIC TEST OF ~~KMX~~ HULL

Attn: Code # 1509-1D MEDRANO

☒ Required Report(s)

☐ Schedule of Events

☐ Excess Material

☐ Supships S/D 4500/2

☐ Drawing(s)

☐ Test Memo

☐ J.O. Exception(s) Completed

☐ \_\_\_\_\_

Enclosure(s):

1) NDT REPORT

Comments:

CONTRACTS  
OCT 28 10 33 AM '81

RECEIVED AND NOTED

BAY CITY MARINE, INC. *(m)*

Signature

Date: 10-28-81

Supship:

Signature

Date: 10-30-81

b6  
b7c

# LETTER OF TRANSMITTAL

No. LOT 17

FROM: **BAY CITY MARINE, INC.**  
1411 Harding Avenue  
National City, CA 92050

Contract: 116-81 Date: 10-29-81  
Vessel: LCM-8 Hull: 6765 & 6783  
Item: 583-41-003 & 004 Mod. \_\_\_\_\_  
Spec. S/D 688-81

TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:  
STD ITEM 009-17 (FY-88, 12 SEPT 80)

Attn: Code # 1509-1

- ☒ Required Report(s)
- ☐ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/ > 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

## Enclosure(s):

1. SURGE TEST PER PARA X 3.3 of PT VI  
ITEMS 583-41-003 & 4

Comments:

RECEIVED AND NOTED

CONTRACTS  
Oct 29 9 52 AM '81

BAY CITY MARINE, INC.

Signature

Date: 10-29-81

Supships

Signature

Date: 10-30-81

b6  
b7c

## LETTER OF TRANSMITTAL

No. **LOT 19**

FROM:

**BAY CITY MARINE, INC.**1411 Harding Avenue  
National City, CA 92050  
(714) 474-8121Contract: **116-81**Date: **11-6-81**Vessel: **DURHAM**Hull: **#6765**Item: **583-41-003**

Mod. \_\_\_\_\_

Spec. S/D: **688-81**TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136

Reference:

**PARA 3.18 of 009-17, FY82, 12 Sept 80**Attn: Code # **1509-1D MEDRANO**

- ☒ Required Report(s)
- ☐ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/D 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

Enclosure(s):

**SEE THE ENCLOSURES FOR THE BALANCE REPORTS  
ON THE TWO (2) ALTERNATORS ROTOR**

Comments:

**REPORT ONLY****BAY CITY MARINE, INC.**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**11-6-81**

Supships

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

b6  
b7C



REVISIONS			
LTR.	DESCRIPTION	DATE	APPROVED
A	Removed DSR Number, J.O. Number, P & E, etc.	7/13/71	
B	Replaced Sheet Number 1 & 2, Removed SUPSHIP REP From Sheet 3	11/7/73	
C	Revised Enclosure (1)	9/17/74	
D	Revised Cover Sheet, Revised General Instructions, Revised Enclosure (1)	11/22/78	

b6  
b7c

1. AUTHORITY		
DSR:	PM NO:	JOB ORDER NO.:
PLANNER:	CODE:	TYPE DESK CODE:

2. CONTRACTORS TEST CERTIFICATION			
FINAL ACCEPTANCE TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH PROCEDURES CONTAINED HERE- IN (ALL RESULTS, DATA, DEFICIENCIES & CORRECTIVE ACTION TAKEN ARE RECORDED IN THE TEST MEMO)			
TEST DIRECTOR SIGNATURE:		DATE 10-30-81	ACCEPTED <input checked="" type="checkbox"/> REJECTED <input type="checkbox"/>
TEST INSPECTOR SIGNATURE		DATE 10-30-81	ACCEPTED <input checked="" type="checkbox"/> REJECTED <input type="checkbox"/>

3. DESIGN: REVIEW AND DISTRIBUTION			
SUBMITTED BY TRANSMITTAL NO. _____		CONTRACT NO. _____ SPEC. NO. _____	
ITEM NO. _____	PM NO. _____	PLANNER _____	
EVALUATION: ACCEPTED <input type="checkbox"/>		ACCEPTED WITH EXCEPTIONS <input type="checkbox"/>	REJECTED <input type="checkbox"/>
ACTION NECESSARY: PLANNING <input type="checkbox"/>		DESIGN <input type="checkbox"/>	INSPECTION <input type="checkbox"/>
DESIGN MEMO: NECESSARY <input type="checkbox"/>		UNNECESSARY <input type="checkbox"/>	
TEST MEMO REVIEWED BY: _____		CODE _____	DATE _____
DISTRIBUTION: SHIP <input type="checkbox"/> 225 <input type="checkbox"/> 226 <input type="checkbox"/>		DESIGN CODE _____	TYPE DESK _____ OTHER _____

DESIGN TEST MEMORANDUM			
EXAMINED		SUPERVISOR OF SHIPBUILDING CONVERSION AND REPAIR, USN ELEVENTH NAVAL DISTRICT SAN DIEGO, CALIFORNIA 92136	
OFFICIAL	SIGNATURE	CODE	DATE
PREPARED BY		261	1/18/79
SECTION HEAD		261	1/18/79
BRANCH HEAD		260	1/18/79
TECH. MANUAL #			
MIL-STD-167 (1) SHIPS		BALANCING AND VIBRATION REQUIREMENTS FOR REPAIR AND OVERHAUL OF ROTATING NAVAL MACHINERY.	
TM ISSUE DATE: 18 JAN 79		U.S.S. <u>LC 17-8</u> (74CM6765)	
11ND-SUPSHIP-SD-9000/30 (REV. 5/74)		B A L & V I B R E Q R O T M A C H Y	
size A		261 090 1056 REV. D	
SCALE		NO SCALE	

SHIP: 74 CM 6765 LCM-8

DATE: 10-30-81

## BALANCING WORKSHEET

EQUIPMENT: PORT AIR ROTOR

FROM: BAY CITY

TO: SUPERVISOR OF SHIPBUILDING, CONVERSION &amp; REPAIR, USN, SAN DIEGO, CA.

ART. NO.:

PARAGRAPH: 3.18 of 009.1 CONTRACT NO.: 116-81

SPECIFICATION NO.: 688-81

MOD. NO.:

## WORK DESCRIPTIONS AND SPECIFICATIONS

WORK ORDER NO.: N00219 PO. NO.: 2403 ITEM: 58341-003

## A. DATA SUMMARY

1. Weight of Rotating Mass		14	POUNDS
2. Dimensions of Rotating Mass	LENGTH	8	INCHES
	DIAMETER	7	INCHES
3. Speed of Rotating Mass	SHOP BALANCING	400	RPM
	IN PLACE BALANCING	1800	RPM
4. Residual Unbalance	PRIOR TO BALANCING PLANE A:	.362	OZ/INCHES
	PLANE B:	.362	OZ/INCHES
	AFTER SHOP BALANCING PLANE A:	.009	OZ/INCHES
	PLANE B:	.009	OZ/INCHES
	Allowed per MIL-STD-167-1 (Ships) Para. 5.2.2.2	.03	OZ/INCHES

## B. Instrumentation &amp; Type of Balancing Machine Used:

1. Shop Balancing	Date Last Calibration	Sensitivity
	6-10-81	.004

Certified By:

Witnessed By:

Witnessed By:

Supship Rep.

Date

Date

Date

TM 01056

ENCLOSURE (1)

SHIP: 74 CM 6765 LCM-8

DATE: 10-30-81

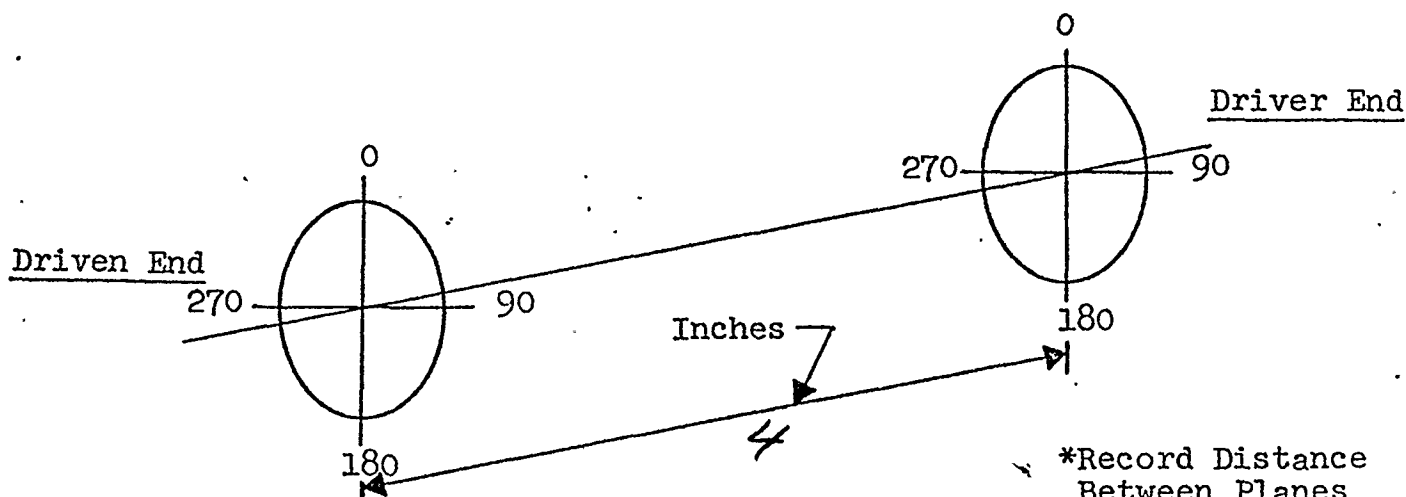
## BALANCING WORKSHEET

EQUIPMENT: PORT ALT. ROTOR

## C. Shop Balancing Data

Correction Plane "A"

Correction Plane "B"



DESCRIPTION	STATIC BALANCE		DYNAMIC BALANCE	
Original Unbalance	.006	OZ/INCHES	.718	OZ/INCHES
Weight (Added-Remove)	N/A	OZ PLANE A	.176	OZ PLANE A
	N/A	OZ PLANE B	.176	OZ PLANE B
Radius of Weight (Added-Remove)	N/A	IN PLANE A	2	IN PLANE A
	N/A	IN PLANE B	2	IN PLANE B
Angle of Weight (Added-Remove)	N/A	DEG PLANE A	90	DEG PLANE A
	N/A	DEG PLANE B	270	DEG PLANE B
Final Unbalance	.006	OZ/INCHES	.006	OZ IN PLANE A
			.006	OZ IN PLANE B

## D. Final Balance Machine Settings

Sensitivity (Lo, Hi, X-Hi)	Hi	Hi
Dash Pot (1 through 5)	1	1
Unbalance Meter	.04	.06

NOTE: Reference mark shall be placed on either end of rotating assembly in order to identify 0 degree position.

b6  
b7c

TIP .001

TM 01056

Enclosure (1)

REVISIONS			
LTR.	DESCRIPTION	DATE	APPROVED
A	Removed DSR Number, J.O. Number, P & E, etc.	7/13/73	
B	Replaced Sheet Number 1 & 2, Removed SUPSHIP REP From Sheet 3	11/7/73	
C	Revised Enclosure (1)	9/17/74	
D	Revised Cover Sheet, Revised General Instructions, Revised Enclosure (1)	11/22/78	

1. AUTHORITY		
DSR:	PM NO:	JOB ORDER NO.:
PLANNER:	CODE:	TYPE DESK CODE:

2. CONTRACTORS TEST CERTIFICATION			
FINAL ACCEPTANCE TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH PROCEDURES CONTAINED HERE- IN (ALL RESULTS, DATA, DEFICIENCIES & CORRECTIVE ACTION TAKEN ARE RECORDED IN THE TEST MEMO)			
TEST DIRECTOR SIGNATURE:	DATE 10-30-81	ACCEPTED <input checked="" type="checkbox"/>	REJECTED <input type="checkbox"/>
TEST INSPECTOR SIGNATURE:	DATE 10-30-81	ACCEPTED <input checked="" type="checkbox"/>	REJECTED <input type="checkbox"/>

b6  
b7C

3. DESIGN: REVIEW AND DISTRIBUTION			
SUBMITTED BY TRANSMITTAL NO. _____		CONTRACT NO. _____ SPEC. NO. _____	
ITEM NO. _____	PM NO. _____	PLANNER _____	
EVALUATION: ACCEPTED <input type="checkbox"/>	ACCEPTED WITH EXCEPTIONS <input type="checkbox"/>	REJECTED <input type="checkbox"/>	
ACTION NECESSARY: PLANNING <input type="checkbox"/>	DESIGN <input type="checkbox"/>	INSPECTION <input type="checkbox"/>	
DESIGN MEMO: NECESSARY <input type="checkbox"/>	UNNECESSARY <input type="checkbox"/>		
TEST MEMO REVIEWED BY: _____		CODE _____	DATE _____
DISTRIBUTION: SHIP <input type="checkbox"/> 225 <input type="checkbox"/> 226 <input type="checkbox"/>		DESIGN CODE _____	TYPE DESK _____ OTHER _____

DESIGN TEST MEMORANDUM			
EXAMINED		SUPERVISOR OF SHIPBUILDING CONVERSION AND REPAIR, USN ELEVENTH NAVAL DISTRICT SAN DIEGO, CALIFORNIA 92136	
OFFICIAL	SIGNATURE	CODE	DATE
PREPARED BY		261	1/18/79
SECTION HEAD		261	1/18/79
BRANCH HEAD		260	1/18/79
TECH. MANUAL #		SUBJECT: (Fill in ship name at time of test)	
MIL-STD-167 (1) SHIPS		U.S.S. LCM-8 (74C146763)	
TM ISSUE DATE: 18 JAN 79		BALANCING AND VIBRATION REQUIREMENTS FOR REPAIR AND OVERHAUL OF ROTATING NAVAL MACHINERY.	
11ND-SUPSHIP-SD-9000/30 (REV. 5/74)		B A L & V I B R E Q R O T M A C H Y	
size A		261	090
SCALE		NO SCALE	
		1056	REV. D

SHIP: LCM-8 74076765 DATE: 10-30-81

BALANCING WORKSHEET

EQUIPMENT: STBD ALT. ROTOR

FROM: BAV CITY

TO: SUPERVISOR OF SHIPBUILDING, CONVERSION & REPAIR, USN, SAN DIEGO, CA.

ART. NO.: PARAGRAPH: 3.18 CONTRACT NO.: 116-81

SPECIFICATION NO.: 688-81 MOD. NO.:

WORK DESCRIPTIONS AND SPECIFICATIONS

WORK ORDER NO.: N00219 PO. NO.: 2403 ITEM: 583-41.003

A. DATA SUMMARY

1. Weight of Rotating Mass		<u>14</u>	POUNDS
2. Dimensions of Rotating Mass	LENGTH	<u>8</u>	INCHES
	DIAMETER	<u>7</u>	INCHES
3. Speed of Rotating Mass	SHOP BALANCING	<u>400</u>	RPM
	IN PLACE BALANCING	<u>1800</u>	RPM
4. Residual Unbalance	PRIOR TO BALANCING	PLANE A: <u>.435</u>	OZ/INCHES
		PLANE B: <u>.012</u>	OZ/INCHES
	AFTER SHOP BALANCING	PLANE A: <u>.012</u>	OZ/INCHES
		PLANE B: <u>.012</u>	OZ/INCHES
	Allowed per MIL-STD-167-1 (Ships) Para. 5.2.2.2	<u>.03</u>	OZ/INCHES

B. Instrumentation & Type of Balancing Machine Used:

b6  
b7C

1. Shop Balancing Date Last Calibration Sensitivity

6-10-81 .004

Certified By: 10-30-81  
Date

Witnessed By: 10-30-81  
Date

Witnessed By: \_\_\_\_\_ Date  
Supship Rep.

TM 01056

ENCLOSURE (1)

SHIP: LCM-8 74CM6265 DATE: 10-30-81

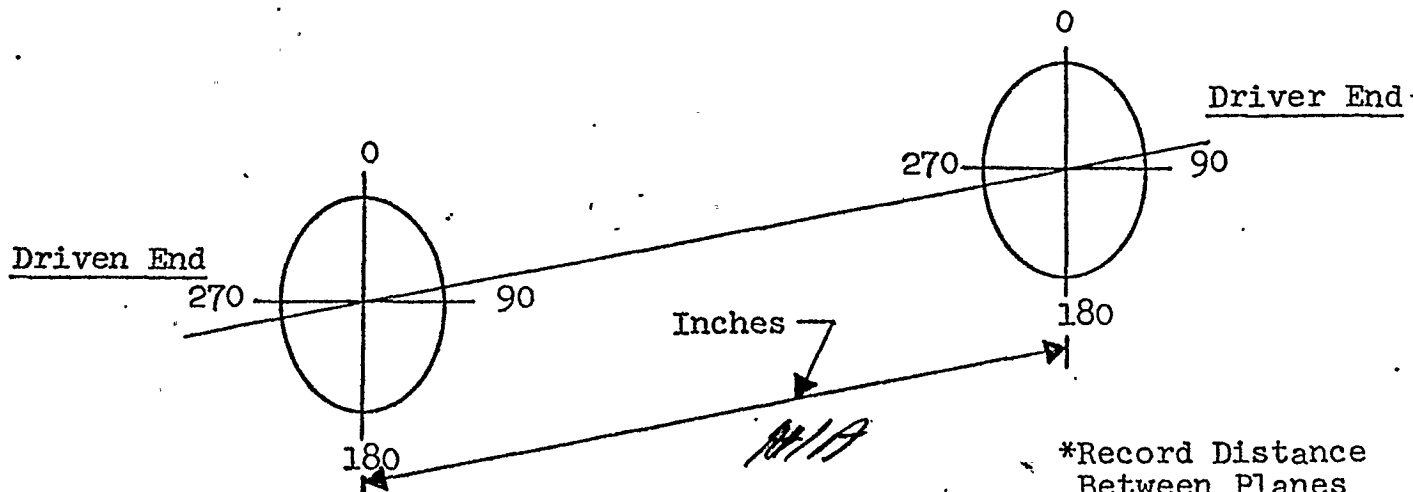
BALANCING WORKSHEET

EQUIPMENT: STBD ALT. ROTOR

C. Shop Balancing Data

Correction Plane "A"

Correction Plane "B"



DESCRIPTION	STATIC BALANCE		DYNAMIC BALANCE	
Original Unbalance	.008	OZ/INCHES	.439	OZ/INCHES
Weight (Added-Remove)	N/A	OZ PLANE A	.212	OZ PLANE A
	N/A	OZ PLANE B	N/A	OZ PLANE B
Radius of Weight (Added-Remove)	N/A	IN PLANE A	2	IN PLANE A
	N/A	IN PLANE B	N/A	IN PLANE B
Angle of Weight (Added-Remove)	N/A	DEG PLANE A	80	DEG PLANE A
	N/A	DEG PLANE B	N/A	DEG PLANE B
Final Unbalance	.008	OZ/INCHES	.008	OZ IN PLANE A
			.008	OZ IN PLANE B

D. Final Balance Machine Settings

Sensitivity (Lo, Hi, X-Hi)	Hi	Hi
Dash Pot (1 through 5)	1	1
Unbalance Meter	.05	.07

NOTE: Reference mark shall be placed on either end of rotating assembly in order to identify 0 degree position. KEY WAY

TIP. .0008

TM 01056

Enclosure (1)

## LETTER OF TRANSMITTAL

No. **LOT 20**

FROM:

**BAY CITY MARINE, INC.**1411 Harding Avenue  
National City, CA 92050  
(714) 474-8121Contract: **116-81** Date: **11-6-81**Vessel: **DURHAM** Hull: **#6783**Item: **583-41-004** Mod. \_\_\_\_\_Spec. S/D **622-81**TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136Attn: Code # **1509-10**

Reference:

**PARA 3.18 of OOS-17 FY 82, 12 Sept 80**☒ Required Report(s)☐ Schedule of Events☐ Excess Material☐ Supships S/D 4500/2☐ Drawing(s)☐ Test Memo☐ J.O. Exception(s) Completed☐ \_\_\_\_\_

Enclosure(s):

**SEE THE ENCLOSURES FOR THE BALANCE REPORTS  
ON THE TWO (2) ALTERNATOR ROTORS**

Comments:

**REPORT ONLY****BAY CITY MARINE, INC.**

Signature: \_\_\_\_\_

Date: **11-6-81**

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

b6  
b7C

# REVISIONS

LTR.	DESCRIPTION	DATE	APPROVED
A	Removed DSR Number, J.O. Number, P & E, etc.	7/13/71	
B	Replaced Sheet Number 1 & 2, Removed SUPSHIP REP From Sheet 3	11/7/73	
C	Revised Enclosure (1)	9/17/74	
D	Revised Cover Sheet, Revised General Instructions, Revised Enclosure (1)	11/22/78	

## 1. AUTHORITY

DSR:	PM NO:	JOB ORDER NO.:
PLANNER:	CODE:	TYPE DESK CODE:

## 2. CONTRACTORS TEST CERTIFICATION

FINAL ACCEPTANCE TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH PROCEDURES CONTAINED HERE-  
IN (ALL RESULTS, DATA, DEFICIENCIES & CORRECTIVE ACTION TAKEN ARE RECORDED IN THE TEST MEMO)

TEST DIRECTOR SIGNATURE:		DATE	10-30-81	ACCEPTED	<input checked="" type="checkbox"/>	REJECTED	<input type="checkbox"/>
TEST INSPECTOR SIGNATURE:		DATE	10-31-81	ACCEPTED	<input checked="" type="checkbox"/>	REJECTED	<input type="checkbox"/>

## 3. DESIGN: REVIEW AND DISTRIBUTION

SUBMITTED BY TRANSMITTAL NO. \_\_\_\_\_ CONTRACT NO. \_\_\_\_\_ SPEC. NO. \_\_\_\_\_

ITEM NO. \_\_\_\_\_ PM NO. \_\_\_\_\_ PLANNER \_\_\_\_\_

EVALUATION: ACCEPTED ☐ ACCEPTED WITH EXCEPTIONS ☐ REJECTED ☐

ACTION NECESSARY: PLANNING ☐ DESIGN ☐ INSPECTION ☐

DESIGN MEMO: NECESSARY ☐ UNNECESSARY ☐

TEST MEMO REVIEWED BY: \_\_\_\_\_ CODE \_\_\_\_\_ DATE \_\_\_\_\_

DISTRIBUTION: SHIP ☐ 225 ☐ 226 ☐ DESIGN CODE \_\_\_\_\_ TYPE DESK \_\_\_\_\_ OTHER \_\_\_\_\_

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## DESIGN TEST MEMORANDUM

EXAMINED				SUPERVISOR OF SHIPBUILDING CONVERSION AND REPAIR, USN ELEVENTH NAVAL DISTRICT SAN DIEGO, CALIFORNIA 92136																	
OFFICIAL	SIGNATURE	CODE	DATE	SUBJECT: (Fill in ship name at time of test)																	
PREPARED BY		261	1/18/79	U.S.S. <u>LC17-8</u> (74C16783)																	
SECTION HEAD		261	1/18/79	BALANCING AND VIBRATION REQUIREMENTS FOR REPAIR AND OVERHAUL OF ROTATING NAVAL MACHINERY.																	
BRANCH HEAD		260	1/18/79																		
TECH. MANUAL #																					
MIL-STD-167 (1) SHIPS				B	A	L	&	V	I	B	R	E	Q	R	O	T	M	A	C	H	Y
TM ISSUE DATE: 18 JAN 79				size A	261				090				1056				REV. D				
11ND-SUPSHIP-SD-9000/30 (REV. 5/74)				SCALE NO SCALE												SHEET 1 OF 5					



SHIP: LCM-8 74C176783DATE: 10-30-81

## BALANCING WORKSHEET

EQUIPMENT: PORT ALT. ROTORFROM: BOY CITY

TO: SUPERVISOR OF SHIPBUILDING, CONVERSION &amp; REPAIR, USN, SAN DIEGO, CA.

ART. NO.: PARAGRAPH: 3.18 of 009-17 CONTRACT NO.: 116-81SPECIFICATION NO.: 688-81 MOD. NO.:

## WORK DESCRIPTIONS AND SPECIFICATIONS

WORK ORDER NO.: 1100219 PO. NO.: 2403 ITEM: 583-41-004

## A. DATA SUMMARY

1. Weight of Rotating Mass		<u>14</u>	POUNDS
2. Dimensions of Rotating Mass	LENGTH	<u>8</u>	INCHES
	DIAMETER	<u>7</u>	INCHES
3. Speed of Rotating Mass	SHOP BALANCING	<u>400</u>	RPM
	IN PLACE BALANCING	<u>1800</u>	RPM
4. Residual Unbalance	PRIOR TO BALANCING	PLANE A: <u>.785</u>	OZ/INCHES
		PLANE B: <u>.785</u>	OZ/INCHES
	AFTER SHOP BALANCING	PLANE A: <u>.009</u>	OZ/INCHES
		PLANE B: <u>.009</u>	OZ/INCHES
	Allowed per MIL-STD-167-1 (Ships) Para. 5.2.2.2	<u>.03</u>	OZ/INCHES

## B. Instrumentation &amp; Type of Balancing Machine Used:

1. Shop Balancing Date Last Calibration Sensitivity

b6

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6-10-81 .004

Certified By:

Witnessed By:

Witnessed By:

10-30-81  
Date10-30-81  
Date\_\_\_\_\_  
Date

Supship Rep.

TM 01056

ENCLOSURE (1)

PAGE 4 of 5

SHIP: LCM-8 74CM 6783

DATE: 10-30-81

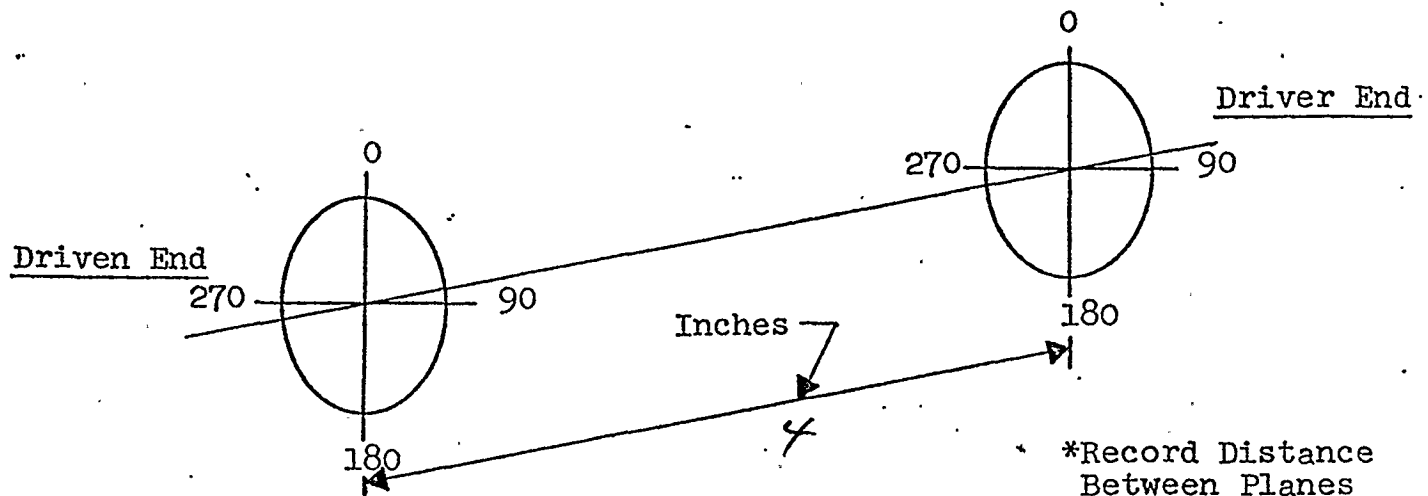
## BALANCING WORKSHEET

EQUIPMENT: PORT ALT. ROTOR

C. Shop Balancing Data

Correction Plane "A"

Correction Plane "B"



DESCRIPTION	STATIC BALANCE		DYNAMIC BALANCE	
Original Unbalance	.429	OZ/INCHES	1.14	OZ/INCHES
Weight ( <u>Added-Remove</u> )	.106	OZ PLANE A	.282	OZ PLANE A
	.106	OZ PLANE B	.282	OZ PLANE B
Radius of Weight ( <u>Added-Remove</u> )	2	IN PLANE A	2	IN PLANE A
	2	IN PLANE B	2	IN PLANE B
Angle of Weight ( <u>Added-Remove</u> )	0	DEG PLANE A	35	DEG PLANE A
	0	DEG PLANE B	215	DEG PLANE B
Final Unbalance	.006	OZ/INCHES	.006	OZ IN PLANE A
			.006	OZ IN PLANE B

## D. Final Balance Machine Settings

Sensitivity (Lo, Hi, X-Hi)	Hi	Hi
Dash Pot (1 through 5)	1	1
Unbalance Meter	.04	.06

NOTE: Reference mark shall be placed on either end of rotating assembly in order to identify 0 degree position. KEY WAY

TIP - 0004

# REVISIONS

LTR.	DESCRIPTION	DATE	APPROVED
A-	Removed DSR Number, J.O. Number, P & E; etc.	7/13/71	
B	Replaced Sheet Number 1 & 2, Removed SUPSHIP REP From Sheet 3	11/7/73	
C	Revised Enclosure (1)	9/17/74	
D	Revised Cover Sheet, Revised General Instructions, Revised Enclosure (1)	11/22/78	

b6  
b7c

1. AUTHORITY		
DSR:	PM NO:	JOB ORDER NO.:
PLANNER:	CODE:	TYPE DESK CODE:

2. CONTRACTORS TEST CERTIFICATION					
FINAL ACCEPTANCE TESTS HAVE BEEN CONDUCTED IN ACCORDANCE WITH PROCEDURES CONTAINED HERE- IN (ALL RESULTS, DATA, DEFICIENCIES & CORRECTIVE ACTION TAKEN ARE RECORDED IN THE TEST MEMO)					
TEST DIRECTOR SIGNATURE:		DATE	10-30-81	ACCEPTED	<input checked="" type="checkbox"/> REJECTED
TEST INSPECTOR SIGNATURE:		DATE	10-30-81	ACCEPTED	<input checked="" type="checkbox"/> REJECTED

3. DESIGN: REVIEW AND DISTRIBUTION					
SUBMITTED BY TRANSMITTAL NO. _____		CONTRACT NO. _____		SPEC. NO. _____	
ITEM NO. _____		PM NO. _____		PLANNER _____	
EVALUATION: ACCEPTED <input type="checkbox"/>		ACCEPTED WITH EXCEPTIONS <input type="checkbox"/>		REJECTED <input type="checkbox"/>	
ACTION NECESSARY: PLANNING <input type="checkbox"/>		DESIGN <input type="checkbox"/>		INSPECTION <input type="checkbox"/>	
DESIGN MEMO: NECESSARY <input type="checkbox"/>		UNNECESSARY <input type="checkbox"/>			
TEST MEMO REVIEWED BY: _____		CODE _____		DATE _____	
DISTRIBUTION: SHIP <input type="checkbox"/>		225 <input type="checkbox"/>		226 <input type="checkbox"/> DESIGN CODE _____ TYPE DESK _____ OTHER _____	

DESIGN TEST MEMORANDUM																					
EXAMINED			SUPERVISOR OF SHIPBUILDING CONVERSION AND REPAIR, USN ELEVENTH NAVAL DISTRICT SAN DIEGO, CALIFORNIA 92136																		
OFFICIAL	SIGNATURE	CODE	DATE	SUBJECT: (Fill in ship name at time of test)																	
PREPARED BY		261	1/18/79	U.S.S. <u>LC 14-8</u> (74CM6783)																	
SECTION HEAD		261	1/18/79	BALANCING AND VIBRATION REQUIREMENTS FOR REPAIR AND OVERHAUL OF ROTATING NAVAL MACHINERY.																	
BRANCH HEAD		260	1/18/79																		
TECH. MANUAL #																					
MIL-STD-167 (1) SHIPS			B	A	L	&	V	I	B	R	E	Q	R	O	T	M	A	C	H	Y	
TM ISSUE DATE: 18 JAN 79			size A	261		090		1056		REV. D											
11ND-SUPSHIP-SD-9000/30 (REV. 5/74)			SCALE		NO SCALE																

SHIP: *LCM-8 74CM 6783*DATE: *10-30-81*

## BALANCING WORKSHEET

EQUIPMENT: *STBD ALT. ROTOR*FROM: *BAY CITY*

TO: SUPERVISOR OF SHIPBUILDING, CONVERSION &amp; REPAIR, USN, SAN DIEGO, CA.

ART. NO.: PARAGRAPH: *3.18 of 4029-12* CONTRACT NO.: *116-81*SPECIFICATION NO.: *688-81* MOD. NO.:

## WORK DESCRIPTIONS AND SPECIFICATIONS

WORK ORDER NO.: *100219* PO. NO.: *2403* ITEM: *583-41-004*

## A. DATA SUMMARY

1. Weight of Rotating Mass		<i>14</i>	POUNDS
2. Dimensions of Rotating Mass	LENGTH	<i>8</i>	INCHES
	DIAMETER	<i>7</i>	INCHES
3. Speed of Rotating Mass	SHOP BALANCING	<i>400</i>	RPM
	IN PLACE BALANCING	<i>1800</i>	RPM
4. Residual Unbalance	PRIOR TO BALANCING	PLANE A: <i>.504</i>	OZ/INCHES
		PLANE B: <i>.504</i>	OZ/INCHES
	AFTER SHOP BALANCING	PLANE A: <i>.0105</i>	OZ/INCHES
		PLANE B: <i>.0105</i>	OZ/INCHES
	Allowed per MIL-STD-167-1 (Ships) Para. 5.2.2.2		<i>.03</i> OZ/INCHES

## B. Instrumentation &amp; Type of Balancing Machine Used:

1. Shop Balancing	Date Last Calibration	b6 b7C	Sensitivity
	<i>6-10-81</i>		<i>.004</i>
Certified By:		<i>10-30-81</i>	Date
Witnessed By:		<i>10-30-81</i>	Date
Witnessed By:	Supship Rep.		Date

TM *01056*

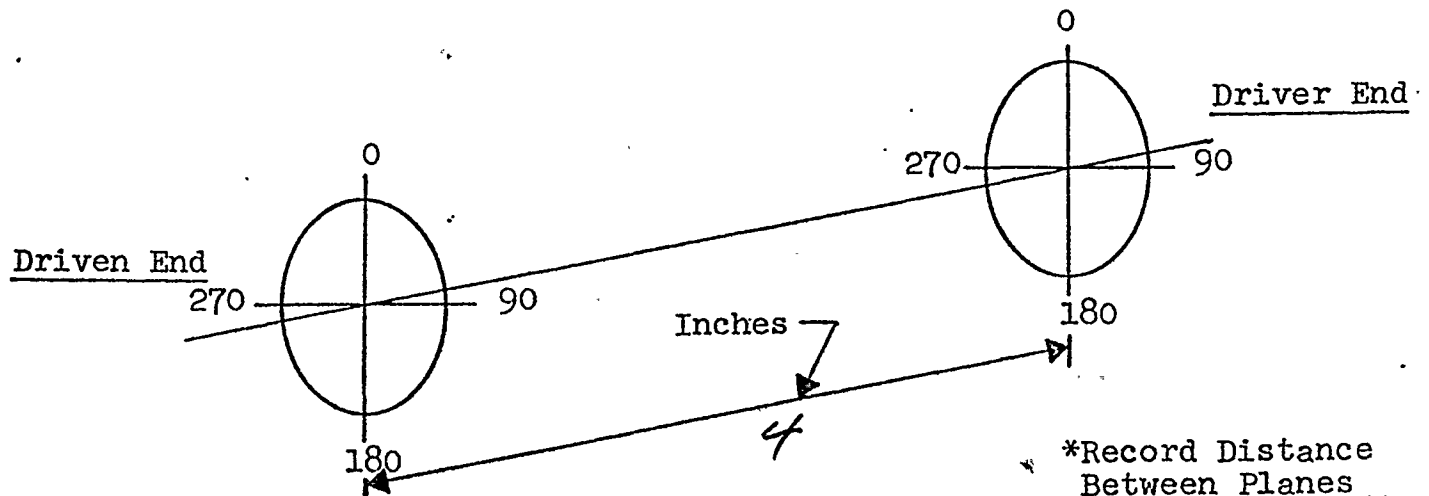
ENCLOSURE (1)

SHIP: LC-17-874C176783DATE: 10-30-81

## BALANCING WORKSHEET

EQUIPMENT: STBD ALT ROTOR

## C. Shop Balancing Data

Correction Plane "A"Correction Plane "B"

DESCRIPTION	STATIC BALANCE		DYNAMIC BALANCE	
Original Unbalance	<u>.995</u>	OZ/INCHES	<u>.014</u>	OZ/INCHES
Weight (Added-Remove)	<u>.247</u>	OZ PLANE A	<u>N/A</u>	OZ PLANE A
	<u>.247</u>	OZ PLANE B	<u>N/A</u>	OZ PLANE B
Radius of Weight (Added-Remove)	<u>2</u>	IN PLANE A	<u>N/A</u>	IN PLANE A
	<u>2</u>	IN PLANE B	<u>N/A</u>	IN PLANE B
Angle of Weight (Added-Remove)	<u>50</u>	DEG PLANE A	<u>N/A</u>	DEG PLANE A
	<u>50</u>	DEG PLANE B	<u>N/A</u>	DEG PLANE B
Final Unbalance	<u>.007</u>	OZ/INCHES	<u>.007</u>	OZ IN PLANE A
			<u>.007</u>	OZ IN PLANE B

## D. Final Balance Machine Settings

Sensitivity (Lo, Hi, X-Hi)	<u>Hi</u>	<u>Hi</u>
Dash Pot (1 through 5)	<u>1</u>	<u>1</u>
Unbalance Meter	<u>.04</u>	<u>.07</u>

NOTE: Reference mark shall be placed on either end of rotating assembly in order to identify 0 degree position. KEYWAY

TIR .0006TM 01056Enclosure (1)

MCS  
420-1848

# MARINE CHEMIST CERTIFICATE

SERIAL NO. A 04537

Survey Requested by <b>LCM-8# 765</b>	Vessel Owner or Agent <b>BCM</b>	Date <b>10-2-81</b>	b6 b7C
Vessel <b>DIESEL</b>	Type of Vessel <b>LCM-8</b>	Specific Location of Vessel <b>BCM YARD 6 ST</b>	
Last Three (3) Cargoes	Test Method <b>VIS FLEL</b>	Time Survey Completed <b>1754</b>	

CARGO DECK VOWDS No. 1, 2, 3, 4, 5, 6, 7  
ENGINE ROOM BILGE  
LAZARETTE BILGE  
UNSHIPPED FUEL OIL TANKS (2)

SAFE FOR WORKERS

SAFE FOR HOT WORK (X) (XX) EXCEPT ON ADJACENT  
TANKS, SPACES AND VOID STRUCTURES NOT NOW  
CERTIFIED.

(X) NOTE: ① REINSPECT JUST PRIOR TO ANY HOT WORK  
② PROVIDE FIRE WATCH WITH CO2 AND  
RAE HOSE

THE PORT AND STAR SHEETS WERE INSPECTED THAT  
BLEEDER PLUGS AND FOUND FREE OF GAS. MAINTAIN  
FORCED VENTILATION THRU SHEETS DURING ANY  
HOT WORK

**In the event of any physical or atmospheric changes adversely affecting the gas-free condition of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.**

**QUALIFICATIONS:** Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

## STANDARD SAFETY DESIGNATIONS

**SAFE FOR WORKERS:** Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

**NOT SAFE FOR WORKERS:** Means that in the compartment or space so designated, the requirements of Safe for Workers has not been met.

**SAFE FOR HOT WORK:** Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks, or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

**NOT SAFE FOR HOT WORK:** Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

**SAFE FOR REPAIR YARD ENTRY:** Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

**CHEMIST'S ENDORSEMENT.** This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306-1980 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

undersigned acknowledges receipt of this Certificate under Section 2-3 of NFPA 306-1980 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed \_\_\_\_\_ Name \_\_\_\_\_ Company \_\_\_\_\_ Date \_\_\_\_\_ Signed \_\_\_\_\_

**NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE**

## MARINE CHEMIST CERTIFICATE

b6 SERIAL NO. B 45341  
b7CRequested by 13CM 2118-5Vessel Owner or Agent M.A. MawerDate October 15, 1981Vessel 14CM 6765Type of Vessel LCM-8Specific Location of Vessel BCM yard, 2nd Street, C.V.

Last Three (3) Cargoes

Test Method M.S.A.Time Survey Completed 1020

One (1) upper section and three (3) lower sections of  
rub rails are free of combustible gases and liquids  
when tested through plug holes.  
Provide air purge on these structures for hot work.

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

**QUALIFICATIONS:** Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

**STANDARD SAFETY DESIGNATIONS** (partial list, paraphrased from NFPA 306-1980, Subsections 1-6.1 through 1-6.4, and Subsection 5-3.2).

**SAFE FOR WORKERS:** Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

**NOT SAFE FOR WORKERS:** Means that in the compartment or space so designated, the requirements of Safe for Workers has not been met.

**SAFE FOR HOT WORK:** Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

**NOT SAFE FOR HOT WORK:** Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

**SAFE FOR REPAIR YARD ENTRY:** Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

**CHEMIST'S ENDORSEMENT.** This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306-1980 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-3 of NFPA 306-1980 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

Date

Signed

Certificate No. 550

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

## MARINE CHEMIST CERTIFICATE

b6  
b7C

SERIAL NO. B 45370

IBCM)

U.S. Navy  
Vessel Owner or AgentOctober 10, 1981  
Date

Vessel ICM 6783

LCM-8  
Type of VesselBCM yard, Chula Vista  
Specific Location of Vessel

Last Three (3) Cargoes

MSA Emission  
Test Method1745  
Time Survey Completed

Unshipped fuel tanks, port and starboard, engine compartment and lazarette bilges, voids 2, 3, 4, 5, 6 and 7 are safe for workers - safe for hot work except on boundaries of adjacent spaces/structures not certified safe for hot work. #1 void contains water and oil it is not safe for hot work.

Port and starboard skiffs, one upper and three lower sub-hulls are free of gas when tested through plug holes. Maintain air purge on these structures for hot work.

Maintain forced ventilation for internal hot work in voids

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

**QUALIFICATIONS:** Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

**STANDARD SAFETY DESIGNATIONS** (partial list, paraphrased from NFPA 306-1980, Subsections 1-6.1 through 1-6.4, and Subsection 5-3.2).

**SAFE FOR WORKERS:** Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

**NOT SAFE FOR WORKERS:** Means that in the compartment or space so designated, the requirements of Safe for Workers has not been met.

**SAFE FOR HOT WORK:** Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

**NOT SAFE FOR HOT WORK:** Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

**SAFE FOR REPAIR YARD ENTRY:** Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

**CHEMIST'S ENDORSEMENT.** This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306-1980 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

undersigned acknowledges receipt of this Certificate under Section 2-3 of NFPA 306-1980 and under \_\_\_\_\_

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed \_\_\_\_\_

Company \_\_\_\_\_

Date \_\_\_\_\_

Signed \_\_\_\_\_

Certificate No. \_\_\_\_\_

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

VESSEL POSTING

Printed in U.S.A.



MARINE CHEMIST CERTIFICATE<sup>b6</sup><sub>b7c</sub>

SERIAL NO. B 45371

CSC (BCM)

Requested by

US Navy

Vessel Owner or Agent

October 11, 1981

Date

Vessel

74CM 6783

LCM-8

Type of Vessel

BCM yard, Chula Vista

Specific Location of Vessel

MSA &amp; visual

Test Method

2020

Time Survey Completed

Last Three (3) Cargoes

No. 1 Void is safe for workers - safe for hot work  
except on boundaries of adjacent spaces/structures not  
certified safe for hot work.

Maintain fire watch and forced ventilation, as  
applicable.

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

**QUALIFICATIONS:** Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

**STANDARD SAFETY DESIGNATIONS** (partial list, paraphrased from NFPA 306-1980, Subsections 1-6.1 through 1-6.4, and Subsection 5-3.2).

**SAFE FOR WORKERS:** Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

**NOT SAFE FOR WORKERS:** Means that in the compartment or space so designated, the requirements of Safe for Workers has not been met.

**SAFE FOR HOT WORK:** Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

**NOT SAFE FOR HOT WORK:** Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

**SAFE FOR REPAIR YARD ENTRY:** Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

**CHEMIST'S ENDORSEMENT.** This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306-1980 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-3 of NFPA 306-1980 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signe

C.D.C.

Company

10-11-81

Date

Signe

550

Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

VESSEL POSTING

# QUALITY DEFICIENCY RECORD - HARDWARE (\*Optional Items)

NAVSHIPS 4365/14 (9-72) (FRONT)

1. FROM:	2.	3.
Supship San Diego	5 Oct 1981	1509-1D#52
TO: Bay City Marine	4.	5.
1411 Harding Ave.	BCM 116-81	
National City, Ca. 92050	6.	7.

8. USS DURHAM LKA 114 (Small Boats)

9. REFERENCE:

SPECIFICATION	PAGE	LINE	PARAGRAPH
Item 042-01-	1		3.1
DRAWING NO.	REV.		
PROCEDURE NO.	PARAGRAPH	PAGE	
OTHER (Specify)			

10. THE FOLLOWING DEFICIENCY(IES) REQUIRE CORRECTIVE ACTION AS TO:

☒ CORRECTION OF DEFECT

☒ CORRECTION AS TO CAUSE

DESCRIPTION OF DEFICIENCY(IES):

1. Para 3.1 of the basic directs contractor to submit four copies of production schedule for job order number BCM 116-81 not later than two working days after start of job order.
2. Contractor failed to comply with contractual agreement according with para 3.1 of basic.
3. Contractors records do not address this area.
4. This deficiency was discussed with BCM [redacted] on 29 Sept 1981 and with [redacted] on 2 Oct 1981 by Supship [redacted]

b6  
b7C

(Continue on Back if More Space Required)

11. AUTHORIZED GOVT. REP. (Signature)	CODE	12.
[redacted]	1509-1D	5 Oct 1981

13. It is requested that a reply indicating the corrective action taken or to be taken be provided to Supship Code 1509-1D by 12 Oct 1981.

14. CONTRACTOR'S REPLY (Authorized Representative)

(Signature)

(Date)

15. VERIFICATION & EVALUATION STATEMENT OF CONTRACTOR'S ACTION (To Be Completed By Govt. Rep.)

SIGNATURE:

DATE:

# **QUALITY DEFICIENCY RECORD - HARDWARE** (\*Optional Items)

NAVSHIPS 4355/14 (9-72) (FRONT)

1. FROM:	2.	3.
Supship San Diego	5 Oct 1981	1509-1D #53
TO: Bay City Marine	4.	5.
1411 Harding Ave.	BCM 116-81	
National City, Ca. 92050	6.	7.

8. REFERENCE: USS DURHAM LKA 114 (Small Boats)

SPECIFICATION	PAGE	LINE	PARAGRAPH
Item 042-01	2		3.5
DRAWING NO.	REV.		
PROCEDURE NO.	PARAGRAPH	PAGE	
OTHER (Specify)			

10. THE FOLLOWING DEFICIENCY(IES) REQUIRE CORRECTIVE ACTION AS TO:

☒ CORRECTION OF DEFECT

☒ CORRECTION AS TO CAUSE

DESCRIPTION OF DEFICIENCY(IES):

1. Para 3.5 of the basic directs contractor to submit four copies of Manpower Managemnt Information for job order number BCM 116-81 not later than two working days after start of job order.
2. Contractor failed to comply with contractual agreement according with para 3.5 of basic.
3. Contractors records do not address this area.
4. This item was discussed with BCM [ ] on 2 Oct 1981 by Supship [ ]

b6  
b7C

(Continue on Back if More Space Required)

11. AUTHORIZED GOVT. REP. (Signature)	CODE	12.
[ ]	1509-1D	5 Oct 1981

13. It is requested that a reply indicating the corrective action taken or to be taken be provided to Supship Code 1509-1D by 12 Oct 1981.

14. CONTRACTOR'S REPLY (Authorized Representative)

15. VERIFICATION & EVALUATION STATEMENT OF CONTRACTOR'S ACTION (To Be Completed By Govt. Rep.)

SIGNATURE:

DATE:

# QUALITY DEFICIENCY RECORD - HARDWARE (\*Optional Items)

NAVSHIPS 4355/14 (9-72) (FRONT)

1. FROM: Supship San Diego	2. 5 Oct 1981	3. 1509-1D #54
TO: Bay City Marine 1411 Harding Ave. National City, Ca. 92050	4. BCM 116-81	5.
	6. Code Welding	7.
8. LCM-6 Hull No. 56CM6761		
9. REFERENCE:		

SPECIFICATION NAVSEA Standard Item 009-06	PAGE 1 of 1	LINE	PARAGRAPH 3.1.1
DRAWING NO.	REV.		
PROCEDURE NO.	PARAGRAPH	PAGE	
OTHER (Specify)			

10. THE FOLLOWING DEFICIENCY(IES) REQUIRE CORRECTIVE ACTION AS TO:

☒ CORRECTION OF DEFECT

☒ CORRECTION AS TO CAUSE

DESCRIPTION OF DEFICIENCY(IES):

1. Paragraph 3.1.1 states: Plug, blank, wrap, cover, or mask equipment, boats, and openings to prevent entry of contaminants into machinery, weapons, systems, electronic equipment, valves, vents not in use, and other openings.

2. During inspection of boat on 4 Oct 1981 it was observed that numerous pieces of equipment (piping, vents, ect.) were not protected. One of the access plates into the port hull void was allowing blasting material to enter the void.

3. Contractors records do not address this area.

4. This item was discussed with [ ] CM by [ ]

b6  
b7C

(Continue on Back if More Space Required)

11. AUTHORIZED GOVT. REP. (Signature) [ ]	CODE 1509-1D	12. 5 Oct 1981
13. It is requested that a reply indicating the corrective action taken or to be taken be provided to Supship Code 1509-1D by 12 Oct 1981.		
14. CONTRACTOR'S REPLY (Authorized Representative)		

(Signature)

(Date)

15. VERIFICATION & EVALUATION STATEMENT OF CONTRACTOR'S ACTION (To Be Completed By Govt. Rep.)

SIGNATURE:

DATE:

# QUALITY DEFICIENCY RECORD - HARDWARE (\*Optional Items)

NAVSHIPS 4355/14 (9-72) (FRONT)

1. FROM:	2.	3.
Supship San Diego	5 Oct 1981	1509-1D #55
TO:	4.	5.
Bay City Marine	BCM 116-81	
1411 Harding Ave.	6.	7.
National City, Ca. 92050	Code Welding	

1. CM-6 Hull No. 56CM6761  
9. REFERENCE:

SPECIFICATION	PAGE	LINE	PARAGRAPH
NAVSEA Standard Item	2 of 2		3.6 & 3.6.1
DRAWING NO.	REV.		
PROCEDURE NO.	PARAGRAPH	PAGE	
OTHER (Specify)			

10. THE FOLLOWING DEFICIENCY(IES) REQUIRE CORRECTIVE ACTION AS TO:

☒ CORRECTION OF DEFECT

☒ CORRECTION AS TO CAUSE

DESCRIPTION OF DEFICIENCY(IES):

1. Paragraph 3.6 & 3.6.1 states: 3.6 Cable ends disconnected and removed from equipment requiring shop work shall be taped and insulated to prevent shorting out and grounding in the event a system is accidentally energized.  
3.6.1 Tag each cable indicating circuit number and location panel and fuse box energizing.

2. During inspection of boat on 4 Oct 1981 it was discovered that all electrical leads and equipment were not tapped or tagged.

3. Contractors records do not address this area.

4. This item was discussed with [ ] BCM by [ ]

b6  
b7C

(Continue on Back if More Space Required)

11. AUTHORIZED GOVT. REP. (Signature)	CODE	12.
[ ]	1509-1D	5 Oct 1981

13. It is requested that a reply indicating the corrective action taken or to be taken be provided to Supship Code 1509-1D by 12 Oct 1981.

14. CONTRACTOR'S REPLY (Authorized Representative)

(Signature)

(Date)

15. VERIFICATION & EVALUATION STATEMENT OF CONTRACTOR'S ACTION (To Be Completed By Govt. Rep.)

SIGNATURE:

DATE:

# QUALITY DEFICIENCY RECORD - HARDWARE

NAVSHIPS 4355/14 (9-72) (FRONT)

(\*Optional Items)

1. FROM:	2.	3.
Supship San Diego	5 Oct 1981	1509-1D #51
TO:	4.	5.
Bay City Marine	BCM 116-81	
1411 Harding Ave.	6.	7.
National City, Ca. 92050	Code Welding	
8. REFERENCE:		
LCM-6 Hull No. 56CM6761		

SPECIFICATION	PAGE	LINE	PARAGRAPH
Standard Item 009-04	4 of 5		3.4.2
DRAWING NO.	REV.		
PROCEDURE NO.	PARAGRAPH	PAGE	
OTHER (Specify)			

10. THE FOLLOWING DEFICIENCY(IES) REQUIRE CORRECTIVE ACTION AS TO:

☒ CORRECTION OF DEFECT

☒ CORRECTION AS TO CAUSE

DESCRIPTION OF DEFICIENCY(IES):

1. Para. 3.4.2 states: Notify the supervisor at least 4 hours but not more than one day prior to commencing the specific test and inspection in the paragraph following a check point.

2. Contractor scheduled check points for both Saturday 3 Oct 1981 and Sunday 4 Oct 1981 at 1400.

A. On Saturday 3 Oct 1981, Supship arrived for check point at 1400 and found Quality Sandblast yard to be secured. Supship departed at approximately 1415 and at that time contractor was still not present.

B. On 4 Oct 1981 Supship arrived at 1345. The only personnel present were sand-blasters from Quality Sandblasting. At approximately 1410 the Q.A. Rep. from contractor called and asked how it looked. He also stated that he would not be able to appear for the scheduled check point time.

3. Contractors records do not address this area.

(Continue on Back if More Space Required)

11. AUTHORIZED GOVT. REP. (Signature)	CODE	12.	b6
	1509-1D	5 Oct 1981	b7C

13. It is requested that a reply indicating the corrective action taken or to be taken be provided to Supship Code 1509-1D by 12 Oct 1981.

14. CONTRACTOR'S REPLY (Authorized Representative)

(Signature)

(Date)

15. VERIFICATION & EVALUATION STATEMENT OF CONTRACTOR'S ACTION (To Be Completed By Govt. Rep.)

SIGNATURE:

DATE:

## LETTER OF TRANSMITTAL

No. LOT 114

FROM:

**BAY CITY MARINE, INC.**1411 Harding Avenue  
National City, CA 92050Contract: 116-81 Date: 10-20-81Vessel: LOA-8 Hull: 74CM6723Item: 563-41-004 Mod. \_\_\_\_\_Spec. S/D 088-81TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136Attn: Code # 1800-10 

Reference:

b6  
b7c

- ☐ Required Report(s)
- ☐ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/ J 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

Enclosure(s):

**REQUEST HULL INSPECTION PER PARA 3.16 OF ITEM  
563-41-004 PT III**

Comments:

**REQUEST FORMAL HULL INSPECTION 0800, 10-22-81****BAY CITY MARINE, INC.**Signature:  Date: 10-20-81

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Excess-Vib  
in Port shaft



## LETTER OF TRANSMITTAL

No. 11

FROM:

**BAY CITY MARINE, INC.**1411 Harding Avenue  
National City, CA 92050  
(714) 474-8121Contract: 116-81 Date: 10-20-1Vessel: LCM-8 Hull: 74CM6783Item: 583-41-004 Mod. \_\_\_\_\_Spec. S/D 688-81TO: Supervisor of Shipbuilding  
Conversion and Repair, USN  
U.S. Naval Station, Box 119  
San Diego, California 92136Attn: Code # 1509-1D 

Reference:

b6  
b7C

- ☐ Required Report(s)
- ☐ Schedule of Events
- ☐ Excess Material
- ☐ Supships S/D 4500/2
- ☐ Drawing(s)
- ☐ Test Memo
- ☐ J.O. Exception(s) Completed
- ☐ \_\_\_\_\_

Enclosure(s):

11 REQUEST HULL INSPECTION  
PER PARA 3.16 OF ITEM  
583-41-004 AT IIL

Comments:

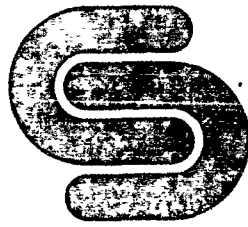
REQUEST FORMAL HULL INSPECTION 0900, 10-22-81

BAY CITY MARINE, INC.

Signature:  Date: 10-19-1

Supships

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**CLEANING  
DYNAMICS**  
CORPORATION

CDC IDR# 1323

DATE SUBMITTED 10-21-81

CONTRACT NO.

SUPSHIP PLANNER

C.D.C. W.O.# 2198

INSPECTION/ DEFICIENCY REPORT

CONTRACTOR: Bay City Marine

ATTENTION:

SUBJ: USS Durham (LKA-114) LCM-6 SPEC NO.  b6  
b7C

ITEM NO. 583-41-002 PT IV MOD DATE OF INSP. 10-20-81  
OF IX

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATION)

Paragraph 3.22 of the basic specifications calls to remove loose rust and debris from centerline voids. Paragraph 3.24 calls to remove loose rust from port and starboard voids. Rust is very thick in voids, and cannot be considered as loose rust. Contractor is not covered to mechanically clean or preserve voids.

CONTRACTOR'S RECOMMENDED ACTION:

Issue Contractor a change order to mechanically clean and preserve centerline, port and starboard voids.





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Q: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

QA: CODE # 1509-D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO. MOD.

583-41-002

PT VIII OF IX

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-2

DATE SUBMITTED 10-8-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-7-81

RE: X CW-1348-2

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

VISUAL INSPECTION REVEALS THE FOLLOWING:

- 1) PORT RUDDER POST BADLY BENT
- 2) PORT RUDDER BLADES BADLY DETERIORATED
- 3) STARBOARD RUDDER BADLY DETERIORATED

## CONTRACTOR'S RECOMMENDED ACTION

ISSUE CONTRACTOR CHANGE ORDER TO RENEW PORT AND STARBOARD RUDDERS (BLADES AND STOCK).  
RUDDER STOCK TO BE STAINLESS STEEL.

Oct 8 9 50 AM '81

CONTRACTS

SIGNATURE OF  
ORIGINATOR

[Signature Box]

URGENT

PLY REQUESTED BY: \_\_\_\_\_  
COMPLETE ARTICLE WITHIN AVAILABILITY

REVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

COVERED IN BASIC SPEC. PARA. 3.9.6 Part 8

10-19-81  
DATE

b6  
b7C

[Signature Box]



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TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF. BILGE PUMPS

SPEC. PKG. NO. SD  
688-81

ART. NO.  
583-41-002  
PT VIII

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-15

DATE SUBMITTED 10-15-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE

RE: CW1348-13

b6

b7C

Contractor has been unable to locate bilge pumps identified in reference 2m. Delivery from factory is (8) eight to (10) ten weeks. Sources for procurement of bilge pumps were:

1. Kettenburg Marine- San Diego, California
2. Generator Equipment- Los Angeles, California
3. Associated Diesel Service- Wilmington, California

### CONTRACTOR'S RECOMMENDED ACTION

Issue contractor change order to repair existing bilge pumps and turn over to ship the new bilge pumps upon arrival.

Oct 15 9 53 AM  
CONTRACT

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

CONTRACTOR AUTHORIZED TO REPAIR EXISTING PUMPS 10-21-81  
WICE NEW AT NO ADDITIONAL COST TO GOVERNMENT

DATE



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TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SUBJECT: USS LCM-6

REF. BOW RAMP WINCH

VIII

SPEC. PKG. NO. SD

688-81

ART. NO.

583-41-002

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-21

DATE SUBMITTED 10-19-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-15-81

RE: CW1348-14

b6

b7C

Upon inspection it was noted that:

1. Pilothouse controls to winch are bent and twisted.
2. Lower winch cantilever is loose in bore
3. The arms from cantilever are missing.

### CONTRACTOR'S RECOMMENDED ACTION

Issue change order to:

1. Renew levers from pilothouse to winch.
2. Ream lower cantilever and clevis and manufacture oversized pins.
3. Manufacture and install new winch arms.

Oct 19 3 30 PM '81  
CONF

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

NOT REQUIRED DUE TO NO WINCH

10-21-81  
DATE



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TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D

SPEC. PKG. NO. SD

ART. NO.

MOD.

SUBJECT: USS LCM-6

688-81

583-41-002

REF. THROTTLE CONTROLS

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-22.

DATE SUBMITTED 1-19-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE 10-15-81

RE: CW1348-15

b6  
b7C

1. The throttle control rods are bent and frozen.
2. Throttle control brackets are welded instead of being bolted.

### CONTRACTOR'S RECOMMENDED ACTION

Issue change order to:

1. Renew the throttle control rods.
2. Fabricate and install new brackets, bolted with grade 5 bolts and nuts.

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

CONTRACTOR COVERED IN PARAS. 3.12 & 3.13  
OF BASIC.

DATE

10-21-81



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TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO.  
583-41-002

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-23  
DATE SUBMITTED 10-19-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR    
INSPECTION DATE 10-15-81  
RE: CW1348-16

b6  
b7C

Upon inspection it was noted that the starter accumulator bracket is broken.

## CONTRACTOR'S RECOMMENDED ACTION

Issue change order to manufacture and install new starter accumulator bracket.

SIGNATURE OF  
ORIGINATOR

URGENT

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

*NO ADDITIONAL WORK AUTHORIZED*

*10-21-81*  
DATE



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TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

IA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO. MOD.  
583-41-002 PT VIII

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

"AS FOUND" report on line shaft  
Required "as found" report of line shaft

CONTRACTOR'S RECOMMENDED ACTION

REQUIRED REPORT IAW 3.9.3 & 3.9.5

Oct 19 3 00 PM '81  
CONTRACT

SIGNATURE OF  
ORIGINATOR

[Empty box for signature of originator]

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

REPORT RECEIVED & NOTED

10-21-81  
DATE

[Empty box for date stamp]

b6  
b7C





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TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO. MOD.  
583-41-002 PT VIII

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

"AS FOUND" report on main propulsion engines 671 RC 2851A #4 and 671 RC 2851 #3.

## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-26

DATE SUBMITTED 10-19-81

CONTRACT NO. BCM 116-81

PLANNER/SURVEYOR

INSPECTION DATE

RE: CW1348-19

b6  
b7C

CONTRACTOR'S RECOMMENDED ACTION

REQUIRED REPORT

CONTRACTS  
OCT 19 3 01 PM '81

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

REPORT RECEIVED & NOTED

10-21-81  
DATE



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TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE #  
SUBJECT: USS  
REF.

SPEC. PKG. NO. SD

ART. NO.

MOD.

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

Contractor noted:

- a. Line shaft is worn in way of cutless and packing LCM-6-P.
- b. Line shaft is worn in way of cutless and pack in area LCM-6-S.

CONTRACTOR'S RECOMMENDED ACTION

Issue contractor a change order to undercut area in way of packing area and cutless area and ceramic coat and finish grind. (ENCLOSED) MIL STD FOR THERMAL SPRAY PROCESS

10-21-81 3:01 PM  
CONTRACTS

SIGNATURE OF  
ORIGINATOR

[Signature box]

REPLY REQUESTED BY: \_\_\_\_\_ ASAP  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

NO ADDITIONAL WORK AUTHORIZED

10-21-81  
DATE

[Signature box]

INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-28  
DATE SUBMITTED 10-19-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR [ ]  
INSPECTION DATE 10-19-81 - 21  
RE: CW583-41-002 PT III

b6  
b7C



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TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO. MOD.  
583-41-002 PT. VIII

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-27  
DATE SUBMITTED 10-19-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR   
INSPECTION DATE 10-15-81

RE: CW1348-20

b6  
b7C

"AS FOUND" blower reading Serial #6-71 RC 2851 A XXX#4

## CONTRACTOR'S RECOMMENDED ACTION

REQUIRED RPEORT IAW PARA 3.4.6

Oct 19 3 01 PM '81  
CONTRACTS

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

REPORT RECEIVED & NOTED.

10-21-81  
DATE



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TO: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR,  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO. MOD.  
583-41-002 PT VIII

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

AS RELEASED BLOWER READINGS SERIAL #6071RC 2851A #4

# INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-29  
DATE SUBMITTED 10-19-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR  
INSPECTION DATE  
RE: CW1348-22

b6  
b7C

## CONTRACTOR'S RECOMMENDED ACTION

REQUIRED REPORT IAW PARA 3.4.6

OCT 19 3 01 PM '81

CONTRACTS

CONTRACTS

SIGNATURE OF  
ORIGINATOR

REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

REPORT RECEIVED & NOTED

10-21-81  
DATE



1019 W. LAUREL STREET, SAN DIEGO, CA 92101 • (714) 235-8367

O: SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR  
SAN DIEGO, CA 92136

VIA: CODE # 1509-1D  
SUBJECT: USS LCM-6  
REF.

SPEC. PKG. NO. SD  
688-81

ART. NO. MOD.  
583-41-002 PT IV

CONDITIONS FOUND (NOT COVERED IN ORIGINAL SPECIFICATIONS)

### VOIDS

After removal of loose rust from centerline voids and port and starboard voids, it was noted that voids have heavy rust deposits and deteriorated plate, frames, and stiffeners.

### CONTRACTOR'S RECOMMENDED ACTION

Issue contractor change order to sandblast port and starboard and centerline voids. Crop out deteriorated plate, frames and stiffeners and replace with new.

OCT 19 3 00 PM '81  
CONTRACT

SIGNATURE OF  
ORIGINATOR



URGENT

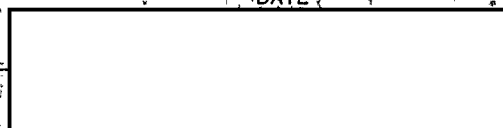
REPLY REQUESTED BY: \_\_\_\_\_  
TO COMPLETE ARTICLE WITHIN AVAILABILITY

SUPERVISOR OF SHIPBUILDING REPRESENTATIVES FINDINGS AND/OR RECOMMENDATIONS

**NO ADDITIONAL WORK AUTHORIZED.**

**10-21-81**

DATE



## INSPECTION / DEFICIENCY REPORT

REPORT NO. 116-30  
DATE SUBMITTED 10-19-81  
CONTRACT NO. BCM 116-81  
PLANNER/SURVEYOR [REDACTED]  
INSPECTION DATE 10-15-81  
RE: CW 1348-23

b6  
b7C